



### **2.3.3: Preparation and adherence of Academic Calendar and Teaching plans by the institution**



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Consonants Making people, Exchanging Greeting & Taking Leave Introducing people to others
2	1	Prose : Forgetting - Robert Lynd Letter Writing - Informal Letters The Sentence Parts of Speech
4	2	Speech sounds - Vowels Giving Personal Information Talking about people
7	0	I CIA Examination
3	2	Poem : Mending Wall - Robert Frost Formal Letters Nouns - Classes and Gender Nouns : Number and Case Adjectives Comparison of Adjectives
5	3	Diphthongs Taking and Leaving messages Making enquiries on the phone Poem : Time and Love Dialogue Writing Articles
6	3	Pronouns - Personal, Reflexive and Emphatic Pronouns - Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal Pronouns - Relative

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Phonetic Transcription ( Words) Asking the Telephone and Asking for someone
9	4	Prose - Mother Teresa - John Frazer Reading Comprehension
10	4	One - Act play : The best laid plans
11	4	Verbs - Transitive and Intransitive Verbs - Active and Passive Voices
12	5	Voiced and Voiceless sounds Dealing with a wrong number
13	5	Short story : The Selfish Giant Verbs : Mood and Tense Concord or Agreement of the verb with the subject
14	0	II CIA Exam
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

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### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>19EN204 : BRITISH DRAMA - 1 (RENAISSANCE - NEO CLASSICAL)</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Dr.Faustus - Christopher Marlowe
2	1	Dr.Faustus - Christopher Marlowe
3	2	The Duchess of Malfi
4	2	The Duchess of Malfi
5	3	The Rivals
6	3	The Rivals
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	She Stoops to Conquer
9	4	She Stoops to Conquer
10	4	She Stoops to Conquer
11	5	Lady Windermere's Fsn
12	5	Lady Windermere's Fan
13	5	Lady Windermere's Fan
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>19AEN202 : HISTORY OF ENGLISH LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Age of Chaucer 1. Geoffrey Chaucer- His biography, his writing style, Father of English Poetry, The Canterbury Tales, conclusion 2. Edmund Spenser - His short biography, his early influences, The Faerie Queen and conclusion
2	2	The Age of Renaissance 1. Christopher Marlowe- His early life, Elizabethan Drama, Dr. Faustus and conclusion 2. William Shakespeare - His early life, His early influences, His phases of writing, greatest plays, conclusion 3. Ben Jonson - His early life,..
7	3	CONDUCT OF I CIA
3	3	The Age of Milton and Neo-Classical Age Poetry 1. John Milton- His early life, Puritanical spirit, his blindness, The Paradise Lost and Paradise Regained- conclusion 2. Alexander Pope - His biography, His satirical characteristics, Mock-epic and conclusio
4	3	Prose 1. Jonathan Swift - His writing style, satirist, The Gullivers Travels and Conclusion 2. Addison and Steele - Their writing style, impact on literature, major works and conclusion 3. Dr. Samuel Johnson - his early influences, Father of English Dic.
5	3	Drama 1. Sheridan - His biography, early influences, sentimental comedy and conclusion 2. William Goldsmith - his early life, anti-sentimental comedy, She stoops to Conquer and Conclusion
6	3	Novel 1. Daniel Defoe - His historical influences, early writings, Robinson Crusoe, conclusion 2. Henry Fielding - His early influences, writing inspiration, prose style and conclusion

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
14	5	CONDUCT OF II CIA
15	5	REVISION OF ALL THE 5 UNITS
8	4	The Romantic Age Poetry 1. Wordsworth - His early influences, Romantic revival, major poems and conclusion 2. Shelley - His early life, mastery of poetry, his odes and conclusion
9	4	Poetry 3. Samuel Taylor Coleridge - His gothic style, early influences, kinds of imagination and conclusion 4. John Keats - his early life, short span of poetry, suppose shakespeare and his end
10	4	Novel 1. Jane Austen - her writing style, his unique novels, Domestic novels and conclusion 2. Walter Scott - His historical writings, father of english novel, Robinson Crusoe and conclusion
11	5	The Victorian and The Modern Age Poetry- Matthew Arnold Alfred Lord Tennyson Robert Browning T. S. Eliot W. B. Yeats
12	5	Prose and Drama 1. John Ruskin 2. George Bernard Shaw- 3. Samuel Beckett
13	5	Novel 1. Thomas Hardy 2. Charles Dickens 3. D. H. Lawrence

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### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>EN101A : LITERARY FORMS &amp; TERMS</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	THE LYRIC THE SONNET THE ELEGY
2	1	THE ODE THE BALLAD THE EPIC
3	2	THE ESSAY THE SHORT STORY
4	2	BIOGRAPHY AUTOBIOGRAPHY
5	3	DRAMA TRAGEDY COMEDY
6	3	THE ONE ACT PLAY MIRACLE PLAY MYSTERY PLAY
7	3	TRAGI-COMEDY THE ABSURD DRAMA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	I-CIA
9	4	NOVEL THE DETECTIVE NOVEL, THE PSYCHOLOGICAL NOVEL
10	4	THE REALISTIC NOVEL SCIENCE FICTION HISTORICAL NOVEL
11	5	CLASSICISM ROMANTICISM
12	5	SYMBOLISM BLANK VERSE
13	5	MYTH SOLILOQUY SATIRE
14	5	II - CIA
15	5	REVISION OF ALL TOPICS DISCUSSED

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prathani) Pavalaru Paruchiyhiranar - Kanicharu
4	1	Kanadasan - Thavru - manipu
5	5	IIakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendiru Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathi - orunal Kazinthzthu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

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### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 PALLAVAR KAALAM - ILAKKIYANGAL
2	1	1.1 VALLALAR - THIRUVARUT KODAI (4798, 4799, 4802) 1.2 THIRUNANA SAMBANTHAR MUDHAL THIRUMURAI - THIRU AALAVAUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)
7	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam
2	1	Vallalar - thiruvarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	3.1 IRUPATHAM NOOTRANDU KAVINJARGAL
2	1	1.1 BHARATHIYAR - KANINILAM 1.2 BHARATHI THASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKALKAVINJAR - PIRAATHANAI 1,4 PAAVALARERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5 KANNADHASAN - THAVARU MANNIPU 1.6 SURATHAA - MELAADAI
5	5	5.1 MUDHAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2 VALLOTRU MIGUM IDAM 5.3 VALLOTRU MIGA IDAM
7	3	3.2 PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1 ARIVUMATHI - POOTHA NERUPPU 2,2 MEERA - PILLAI THAMIZH
9	2	2.3 ERODU THAMIZHANBAN - VETRI MUGAM 2.4 VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5 SIRPI - ABDUL KALAAMIN VEENAI
11	2	2.6 iI HAIKOO KAVITHAIGAL
12	2	2.6 II SENTRIYU KAVITHAIGAL
13	3	3.3 SIRUKATHAIYIN THOTRAMUM VALARCHIYUM
14	4	4.1 KADAVULUM KANTHASAMI PILLAIYUM 4.2 ORU NAAL KAZHINTHATHU
15	4	4.3 KAALANUM KIZHAVIUM 4.4 AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	English	Semester	2
Subject	21LT02 : TAMIL - II	Course	English

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. PALLAVAR KAALAM - ILLAKIYANGAL
2	1	1.1. VALLALAAR - THIRUVARUTKODAI ( 4798, 4799, 4802) 1.2. THIRUNANASAMPANTHAR - MUDAL THIRUMURAI - THIRU AALAVAYUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (1 - 6)
7	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (7 - 11)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams .
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity .
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession.
5	2	Food chains, food webs and ecological pyramids – types, characteristics, structure and function .
6	2	Forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	Solid waste management: causes, effects, control measures and disposal of wastes
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion .
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Etuthokai
2	2	Purnanauru Agananuru
3	3	Kurunthokai Natrinai
4	4	Aingurunuru Kalithokai
5	5	Paripaadal
6	6	Keezhkanaku Noolgalil Needhi Noolgal
7	7	Virundhombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Kalamai Kuriparidhal
9	9	Pathupaatu
10	10	Sirupaanatrupadai
11	11	Mullaipaatu
12	12	Madhuraikaanji
13	13	Patinapaalai
14	14	Patinapaalai
15	15	Pathirikaigalil Seidhi Varaidhal Suruki Varaidhal Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>19EN407 : BRITISH DRAMA -II (VICTORIAN-MODERN AGE)</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Importance of Being Earnest
2	1	The Importance of Being Earnest
3	1	The Importance of being Earnest
4	2	Look Back in Anger
5	2	Look back in Anger
6	3	The Apple Cart
7	3	II CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Playboy of the Western World
9	4	The Playboy of the Western World
10	4	The Playboy of that Western World
11	5	The Family Reunion
12	5	The Family Reunion
13	5	The Family Reunion
14	5	II CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Aimperum kappiyangal
2	4	Aimsiru kappiyangal
3	4	Irattai kappiyam
4	1	Silapathikaram-kunrakkuravai.
5	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(1-60).
6	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(61-129).
7	2	Seevagasinthamani-Naamagal Ilambagam.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai vaanoli nigazhahi thoguppu, vadikaiyalar sevai maiya aluvalar, sutrula vazegate,kadithangal,pothu katturai.
9	4	Pira kappiyangal
10	2	Kambaramayanam-kaikayi suzhvinai padalam.
11	4	Christava kappiyangal.
12	4	Islam kappiyangal.
13	3	Periyapuramam-Ilayankudi mara nayanar.
14	3	Thembavani-Sethayan vetri padalam.
15	3	Seerapuramam-kama padalam.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. E. Arokiadoss</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>19EN408 : BRITISH PROSE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	My Lost Dollar by Stephen Leacock
2	2	My Lost Dollar by Stephen Leacock
3	2	On Parents and children by Earnest Barker
4	2	My Lost Dollar by Stephen Leacock
5	4	What I found in my Pocket--byG.K.Chesterton
6	4	My Lost Dollar by Stephen Leacock
7	1	ICIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Tollarance by EMFroster
9	5	Tollarance by EMFroster
10	5	All About ourselves by John Boygot Priestley
11	5	All. about ourselves by John Boygot Priestley
12	5	All About ourselves by John Boygot Priestley
13	3	Tollarance
14	2	IICIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Imperunkaapiyangal
2	4	Inchirukaapiyangal
3	4	Irattai kaapiyangal
4	1	Silappathigaram - Kuntra Kuravai kaathai
5	1	Manimegalai - vuthayakumaranai vaalaal Erintha Kaathai
6	1	Manimegalai - vuthayakumaranai vaalaal Erintha Kaathai
7	2	Seevagasinthamani - Nattuvalam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai Vaanoli Nigazhchi Thoguppu, vaadikkaiyalar sevai Maiya Aluvalagam, Sutrulaa Vazhikaatti Kaditham Pothukatturai
9	4	Pirakappiyangal
10	2	Kamparaamayanam - Kaikeyi Soozhvinai Padalam
11	4	Kirithuva Kaapiyangal
12	4	Islamiya Kaapiyangal
13	3	Periyapuraanam
14	3	Thempaavani
15	3	Seerapuranam - Kaamaapadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Ettuthogai
2	1	1.1 Puranaanuru 1.2 Aganaanuru
3	1	1.3 Kurunthogai 1.4 Nartinai
4	1	1.5 Ingurunooru 1.6 Kalithogai
5	1	1.7 Paripaadal
6	4	4.3 Keezhkanaku noolgalil neethi noolgal
7	3	3.1 Arathupaal _ virunthombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Porutpaal _ Kallaamai 3.3 Inbaththupaal _ Kuriparithal
9	4	4.2 Paththupaattu
10	2	2.1 Sirupaanaartrupadai
11	2	2.2 Mullaipaattu
12	2	2.3 Madhuraikaanchi
13	2	2.4 Pattinapaalai
14	2	2.4 Pattinapaalai
15	5	Mozhithiran 5.1 Pathirikaigalil seithi varaithal 5.2 Surukki varaithal 5.3 Nearkaanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>EN305A : AMERICAN LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Raven -Edgar Allan Poe
2	1	Stopping by woods on a snowy evening
3	1	Happiness -Carl Sandburg
4	2	The meadow mouse - Theodore Roethke
5	2	I taste a liquor never brewed
6	2	On the beach at night
7	3	The American scholar

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Where I lived and what I lived for
9	4	The glass manager
10	4	All my sons - Arthur Miller
11	5	The adventures of Tom sawyer
12	5	The old man and the sea
13	5	Adventure of Tom sawyer character & analysis
14	5	The old man and sea characterstic analysis
15	5	Adventure of Tom & Oldman and sea revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>AEN404A : JOURNALISM AND MASS COMMUNICATION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Need for communication Types of communication Elements of communication
2	1	Barrie's of communication 7cs of communication
3	1	Function and uses of mass communication Oral communication Traditional form of communication Media of course communication on the Indian context
4	2	What is journalism History of journalist What is news
5	2	Role of press The press on the mass media Freedom of press
6	2	Qualifications of journalist Journalist as the writing Journalism in India
7	3	ICIA News Print media Collecting the news Reporting the fact Editing the news Report the news



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The reporter
9	4	The chief reporter & others correspondence
10	4	Feature writing
11	4	Writing magazine
12	4	The freedom journalist
14	5	Television The internet
13	5	Radio
15	5	IICIA revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	English	Semester	4
Subject	EVS401S : ENVIRONMENTAL SCIENCE	Course	English

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession – food chains, food webs and ecological pyramids –
5	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation – hot spots –
7	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems -Concept, structure and function of an ecosystem – producers, consumers and decomposes – energy flow.
5	2	Ecological succession – food chains, food webs and ecological pyramids – types.
6	2	Characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity.
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution.
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act.
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JACKULINE SUGANTHI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>EN510S : SHAKESPEARE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Shakespeare _Intoduction,. Twelfth Night Act I
2	1	Twelfth Night Act 2
3	1	Twelfth Night Act 3,4
4	5	Sonnet no 12,16
5	3	Henry IV Part I Act 1
6	3	Henry IV Part I Act 2, 3
7	3	Henry IV Part I 4,5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	1CIA
9	2	Macbeth Act 1,2
10	2	Macbeth Act 3,4
11	2	Macbeth Act 5
12	4	Julius Caesar Act2,3
13	4	Julius Caesar Act4,5
14	4	Sonnet no 60,113
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>19EN511 : BRITISH FICTION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, Pride and Prejudice _Jane Austen
2	1	Pride and Prejudice _Jane Austen
3	1	Pride and Prejudice _Jane Austen
4	2	Charles Dickens::A Tale of Two Cities
5	2	A Tale of Two Cities
6	2	A Tale of Two Cities
7	3	H.G.Wells: The Invisible Man



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	H.G.Wells: The Invisible Man ,1 CIA
9	4	George Orwell: Animal Farm
10	4	George Orwell: Animal Farm
11	4	George Orwell: Animal Farm
12	5	Graham Greene: The Power and the Glory
13	5	Graham Greene: The p and the Glory
14	5	Graham Greene: The Power and the Glory
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>19EN509 : AMERICAN LITERATURE - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Brahma by Emerson
2	1	The Raven by Edgar Allan Poe
3	1	On the Beach at night by Walt Whitman
4	2	You Shall Above All the Things be Glad and Young by E. E. Cummings
5	2	Stopping by Woods on the Snowy Evening by Robert Frost
6	2	I Taste a Liquor Never Brewed by Emily Dickinson
7	3	The American Scholar by Emerson

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Where I Lived and What I Lived For by Thoreau
9	4	The Glass Menagerie by Tennessee Williams
10	4	The Glass Menagerie by Tennessee Williams
11	5	The Scarlet Letter by Hawthorne
12	5	The Scarlet Letter by Hawthorne
13	5	The Adventures of Tom Sawyer by Mark Twain
14	5	The Adventures of Tom Sawyer by Mark Twain
15	5	The Adventures of Tom Sawyer by Mark Twain

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>19EN614 : AMERICAN LITERATURE - II</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Because I could not stop for Death
2	1	Happiness and The Emperor of ice cream
3	3	The Meadow Mouse
4	2	The Negro speaks of rivers
5	3	All My Sons
6	3	The Caretaker
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Figure a Poem Makes
9	4	The Figure a Poem Makes
10	4	Nobel Prize Acceptance Speech
11	5	The Old Man and the Sea
12	5	The Old Man and the Sea As I Lay Dying
13	5	As I Lay Dying
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SELVANATHAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>EEN513S : THE HISTORY OF THE ENGLISH LANGUAGE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to the language Introduction to the English Language
2	1	General character of English Animal use of language and human tendency
3	2	Speech and communication Introduction to indo-european familial languages Reconstructing the past or genological of indo- European languages
4	2	Germanic family of languages English in the germanic family
5	2	Hellanic languages Philology of literature Landmarks in the history of languages
6	2	Miltons contribution as a maker of english Shakespeare's contribution as maker of English Bible translation
7	2	Authorized version of the Bible William Tyndales contributio John Wycliff'a translation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Growth of vocabulary Role of Dictionaries in English
9	3	Loan words in English Latin loan words Greek loan words
10	3	Scandinavian influences French influences Indian use languages
11	4	Change of meaning
12	4	Spelling and pronunciation Speech and writing
13	5	Evolution of standard english Modern English and writings
14	5	Differences between American English and British english
15	5	Radio use of language Dialectal version in english

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>19EN509 : AMERICAN LITERATURE - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Brahma
2	1	The Raven
3	1	The Raven
4	1	On the Beach at Night
5	1	On the Beach at Night
6	3	The American Scholar
7	3	The American Scholar



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Revision
9	5	The Scarlet Letter
10	5	The Scarlet Letter
11	5	The Scarlet Letter
12	5	The Scarlet Letter
13	5	The Scarlet Letter
14	1	Revidion
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>19EN614 : AMERICAN LITERATURE - II</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Happiness
2	1	Happiness
3	1	The Meadow Mouse
4	2	The Meadow Mouse
5	3	All My Sons
6	3	All My Sons
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Art of Fiction
9	4	Art of Fiction
10	5	The Old Man and the Sea
11	5	The Old Man and the Sea
12	5	The Old Man and the Sea
13	5	The Old Man and the Sea
14	5	II CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EEN617S : AN INTRODUCTION TO MODERN LINGUISTICS</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	3. RP and Standard English
2	1	3. RP and Standard English
3	2	Phonetic Transcription
4	2	Phonetic Transcription
5	3	3. Intonation: Assimilation and Elision
6	3	3. Intonation: Assimilation and Elision
7	3	3. Intonation: Assimilation and Elision

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	0	I CIA
9	4	3. Word Formation
10	4	3. Word Formation
11	4	3. Word Formation
12	5	a) Synonymy b)Antonymy c)Hyponymy d)Polysemy e) Ambiguity f)Contradiction g) Incompatability
13	5	a) Synonymy b)Antonymy c)Hyponymy d)Polysemy e) Ambiguity f)Contradiction g) Incompatability
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EEN618S : WOMEN S WRITING</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Sarojini Naidu : The Bangle Seller 2. Elizabeth Bishop : The Fish
2	1	3. Christina Rossetti : Dream – Love 4. Margaret Atwood : Siren Song 5. Judith Wright : Eve to her Daughter
3	2	1. Lorraine Hansbury : Raisin in the sun
4	2	1. Lorraine Hansbury : Raisin in the sun
5	3	Mary Woolstone Craft : Vindications of The Rights of Women
6	3	Ranjana Harish : Male Culture, Female Strategies (Prose)
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	1. Anita Nair : Ladies Coupe
9	4	2. Toni Morrison : Tar Baby
10	4	2. Toni Morrison : Tar Baby
11	5	1. Anita Desai : A Devoted Son
12	5	2. Katherine Anne Porter : The Grave
13	5	2. Katherine Anne Porter : The Grave
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EN615S : LITERARY CRITICISM</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Philip Sidney : An Apology for Poetry
2	1	Philip Sidney : An Apology for Poetry
3	2	S.T. Coleridge : Biographia Literaria (Chapter XIV)
4	2	S.T. Coleridge : Biographia Literaria (Chapter XIV)
5	3	Matthew Arnold : The Study of Poetry
6	3	Matthew Arnold : The Study of Poetry
7	1	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	T.S. Eliot : Function of Criticism
9	4	T.S. Eliot : Function of Criticism
10	4	T.S. Eliot : Function of Criticism
11	5	i. The New Criticism ii. Structuralist Criticism
12	5	iii. Psychoanalytic Criticism iv. Postcolonial Criticism
13	5	iv. Postcolonial Criticism v. Feminist Criticism
14	5	Revision
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JACKULINE SUGANTHI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>AEN101A : SOCIAL HISTORY OF ENGLAND</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	English colonial Expansion
2	2	English colonial Expansion
3	2	English colonial Expansion
4	2	The Puritan Revolution
5	2	The Puritan Revolution
6	2	Restoration England
7	2	Restoration England

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	1CIA
9	4	Causes and Effects of Industrial Revolution
10	4	Causes and Effects of Industrial Revolution
11	4	Social Reforms
12	4	Social Reforms
13	5	Trade Unionism in England
14	5	Trade Unionism in England
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>19AEN202 : HISTORY OF ENGLISH LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The age of Chaucer: Chaucer
2	1	Chaucer
3	2	The age of Renaissance: Marlowe
4	2	Shakespeare
5	3	Milton
6	3	Alexander Pope
7	3	Jonathan Swift

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	CIA
9	4	The Romantic Age: William Wordsworth, Coleridge
10	4	Shelley
11	4	Jane Austen
12	5	The Victorian Age & The Modern Age : Arnold, Tennyson
13	5	Robert Browning, T.S Eliot
14	2	CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>AEN101A : SOCIAL HISTORY OF ENGLAND</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Renaissance
2	1	The Renaissance
3	1	The Renaissance
4	1	The Reformation in England: Dissolution of Monasteries
5	1	The Reformation in England: Dissolution of Monasteries
6	1	Pilgrimage of Greece
7	1	Pilgrimage of Greece

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	1CIA
9	5	Means of Communication
10	5	Means of Communication
11	5	Means of Communication
12	5	The Impact of the World Wars
13	5	The Impact of the World Wars
14	5	The Impact of the World Wars
15	5	11 CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>EN102A : INDIAN ENGLISH LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Child by Rabindranath Tagore The Queen's Rival by Sarojini Naidu The Tiger and the Deer by Sri Aurobindo Goodbye Party for Mrs. Pushpa by Nissim Ezekiel
2	2	On Killing a Tree by G. V. Patel
3	2	The Casuarina Tree by Toru Dutt
4	2	Obituary by A. K. Ramanujan Home Coming by R. Parthasarathy
5	3	The Discovery of India (Chapter 4) by Jawaharlal Nehru
6	3	India and Democracy by B. R. Ambedkar
7	0	Revision



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Post Office by Rabindranath Tagore (Theme and Characters)
9	4	The Post Office by Rabindranath Tagore (Plot)
10	4	Silence! The Court is in Session by Vijay Tendulkar (Theme and Character)
11	4	Silence! The Court is in Session by Vijay Tendulkar (Plot)
12	5	Swami and Friends by R. K. Narayan (Theme and Characters)
13	5	Swami and Friends by R. K. Narayan (Plot)
14	5	One Night at the Call Centre by Chetan Bhagat (Theme and Characters)
15	5	One Night at the Call Centre by Chetan Bhagat (Plot)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SELVANATHAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening English speech sounds Meeting people exchanging greetings and taking leave
2	1	Introducing people to others Forgetting - Robert lynd
3	1	Letter writing The sentence Parts of speech
4	2	Speech sounds pure vowels Giving personal information
5	2	Talking to people Mending wall - Robert frost
6	2	Letter writing Nouns clauses and gender Nouns number and case Adjectives Comparison of adjectives
7	3	Diphthongs Taking and leaving messages

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Time and Love - William shakespeare - poem Dialogue writing Pronouns -personal reflexive and emphatic
9	3	Pronouns -Demonstrative, indefinitive,interrogative Distributive pronoun and reciprocal Pronoun relative
10	4	Phonetic transcription Answering the telephone and asking for someone
11	4	Mother Teresa -John Fraser -prose
12	4	The best laid plans - Farrell mitchelv-one act play Reading comprehension
13	4	Verbs Transitive and intransitive Verbs active and passive voices
14	5	Voiced and voiceless sounds Dealung with a wrong number The selfish giant- Oscar wilde
15	5	Verbs mood and tense Concord of the agreement

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	English	Semester	1
Subject	LT101B : TAMIL - I	Course	English

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	English	Semester	2
Subject	21LT02 : TAMIL - II	Course	English

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. PALLAVAR KAALAM - ILLAKIYANGAL
2	1	1.1. VALLALAAR - THIRUVARUTKODAI ( 4798, 4799, 4802) 1.2. THIRUNANASAMPANTHAR - MUDAL THIRUMURAI - THIRU AALAVAYUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (1 - 6)
7	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (7 - 11)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	ILLAKKIYA VARALARU - IRUBATHAM NOOTTRANDU KAVIGHERGAL
2	1	BARATHIYARIN KAANINILAM VENDUM BHARATHIDASSANIN NAATTIYAL NAATTUVOM
3	1	NAMAKAL VE RAMALINGAM PILLAIYIN THAMIZHAN ITHAYAM PAVALERERU PERUNCHITHRANARIN KANICHARU
4	1	KANNADASANIN THAVARU- MANNIPPU SURATHAVIN MELADAI KAVITHAI
5	5	ILLAKANAM - MUTHAL EZHUTHUKAL, SAARBEZHUTHUKKAL
6	5	VALOTTRU MIGUMIDAM VALOTTRU MIGAVIDAM
7	3	PUTHUKAVITHAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	AREVUMATHIYIN POOTHA NERUPPU MEERAVIN PILLAITHAMIZH
9	2	ERODU THAMIZHANBANIN VETTRE MUGAM VAIRAMUTHUVIN SUTHANTHIRAM
10	2	SIRPI- ABDULKALAMIN VEENAI
11	2	HAIKKO KAVITHAIGAL- AMUTHABHARATHIYIN KATTRIN KAIGAL, BOOBATHIRAJAVIN RAJANGAM, NANDAVANAM- SANTHIRASEGARAN, THURAVI
12	2	SENREYUK KAVITHAIGAL-
13	3	ILLAKKIYA VARALARU- SIRUKATHAI THOTTRAMUN VALARCHIYUM
14	4	SIRUKATHAI- KADAVULUM KANDASAMI PILLAIYUM ORUNAAL KAZHINTHATHU
15	4	KAALANUM KIZHAVIYUM AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>21EN203 : BRITISH POETRY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sonnet 75 by Spenser On His Blindness by John Milton
2	1	St. Cecilia's Day by Dryden
3	2	Elegy Written in a Country Churchyard by Gray Kubla Khan by Coleridge
4	2	Ode to the West Wind by Shelley Ode to a Nightingale by Keats
5	3	The Lady of Shallot by Tennyson My Last Duchess by Browning
6	3	The Blessed Damsel by D.G. Rosetti
7	3	I CIA EXAMINATION

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	God's Grandeur by Hopkins
9	4	Sailing to Byzantium by Yeats
10	4	Anthem for Doomed Youth by Owen The Snake by D.H. Lawrence
11	5	The Unknown Citizen by Auden
12	5	Prayer Before Birth by Louis Mac Niece
13	5	Hawk Roosting by Ted Hughes
14	5	II CIA EXAMINATIONS
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>EN101A : LITERARY FORMS &amp; TERMS</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Lyric, The sonnet , The ode
2	1	The Elegy , The Ballad, The Epic
3	2	The essay , The Short story
4	2	Biography, Autobiography
5	3	Tragedy , Comedy , The One - Act Play, Miracle play
6	3	Mystery play , Tragic - Comedy , The Absurd Drama
7	0	I CIA EXAMINATIONS

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The detective novel
9	4	The psychological novel, The realistic novel
10	4	Science fiction, Historical novel
11	5	Classicism, Romanticism
12	5	Symbolism, Black verse
14	0	II CIA EXAMINATIONS
15	0	Revision
13	5	Soliloquy, satire

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
7	3	I CIA EXAMINATIONS
1	1	Triphthongs Making Requests Thanking Responding to Someone How to be a Doctor
2	1	Precise Writing Non Finite verbs Strong and weak verbs The Auxiliaries
14	5	II CIA EXAMINATIONS
15	5	Revision
3	2	Transcription Inviting and accepting invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Article



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	The Relationship between spelling and sound Paying Compliments
8	4	Sentence Transcription Describing Daily Routines
6	3	Asking Permission My Visions for India
9	4	If - Poem The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for directions and giving directions
12	5	Kiran Bedi
13	5	Use of wrong tenses Use of prefixes and suffixes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>19EN204 : BRITISH DRAMA - 1 (RENAISSANCE - NEO CLASSICAL)</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Dr. Faustus
2	1	Dr. Faustus
3	2	The Duchess of Malfi
4	2	The Duchess of Malfi
5	3	The Rivals
6	3	The Rivals
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	She Stoops to Conquer
9	4	She Stoops to Conquer
10	4	She Stoops to Conquer
11	5	Lady Windermere's Fan
12	5	Lady Windermere's Fan
13	5	Lady Windermere's Fan
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTURI KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	LISTENING SPEECH SOUNDS- CONSONANTS SPEAKING MEETING PEOPLE, EXCHANGING GREETINGS & TAKING LEAVE INTRODUCING PEOPLE TO OTHERS
2	1	READING FORGETTING- ROBERT LYND
3	1	WRITING PARTS OF SPEECH INFORMAL LETTERS THE SENTENCE
4	2	LISTENING SPEECH SOUNDS-VOWELS SPEAKING GIVING PERSONAL INFORMATION TALKING ABOUT PEOPLE READING POEM-MENDING WALL-ROBERT FROST
5	2	LETTER WRITING- FORMAL LETTERS NOUNS-GENDER, CASES, NUMBER & CLASSES ADJECTIVES COMPARISON OF ADJECTIVES
6	3	LISTENING DIPHTHONGS SPEAKING TAKING AND LEAVING MESSAGES MAKING ENQUIRIERS ON THE PHONE
7	3	READING POEM-TIME AND LOVE-SHAKESPEARE WRITING DIALOGUE WRITING ARTICLES PRONOUNS AND ITS TYPES

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	I -CIA
14	5	II-CIA
9	4	LISTENING PHONETIC TRANSCRIPTION SPEAKING ANSWERING THE TELEPHONE AND ASKING FOR SOMEONE
10	4	READING PROSE-MOTHER TERESA- JOHN FRASER ONE ACT PLAY- BEST LAID PLANS-FARRELL MITCHELL
11	4	WRITING READING COMPREHENSION VERBS- TRANSITIVE AND INTRANSITIVE VERBS-ACTIVE AND PASSIVE
12	5	LISTENING VOICED AND VOICELESS SOUNDS SPEAKING DEALING WITH A WRONG NUMBER
13	5	READING SHORT STORY-THE SELFISH GIANT-OSCAR WILDE WRITING VERBS-MOOD AND TENSE CONCORD OR AGREEMENT OF THE VERB WITH THE SUBJECT
15	5	REVISION OF ALL THE TOPICS DISCUSSED

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JACKULINE SUGANTHI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>19EN306 : ENGLISH SHORT STORY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Alexander Baron: The Man who knew too much
2	1	Alexander Baron: The Man who knew too much
3	1	Alexander Baron : The Man who knew too much
4	1	Somerset Maugham: The Dream
5	1	Somerset Maugham: The Dream
6	3	D.H.Lawrence: The Rocking Horse Winner
7	3	The Rocking Horse Winner

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	1 CIA
9	5	Leo Tolstoy :God sees the Truth but waits
10	5	Leo Tolstoy: God sees the Truth but waits
11	5	Leo Tolstoy:God sees the Truth but waits
12	5	Ruskin Bond: The Tiger in the Tunnel
14	5	Ruskin Bond:The Tiger in the Tunnel
15	5	11CIA
13	5	Ruskin Bond:The Tiger in the Tunnel

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>19EN306 : ENGLISH SHORT STORY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Happy Prince by Oscar Wilde
2	1	The Happy Prince by Oscar Wilde
3	1	The Happy Prince by Oscar Wilde
4	3	William Faulkner: A Rose for Emily
5	3	William Faulkner:A Rose for Emily
6	3	Mark Twain: Baker's Bluejay yarn
7	3	Mark Twain: Baker's Bluejay yarn

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	1CIA
9	4	R.k.Narayan:Iswaran
10	4	R.k.Narayan: Iswaran
11	5	Guy de Maupassant:Two Little Soldiers
12	5	Guy de Maupassant: Two Little Soldiers
13	5	Ruskin Bond:The Tiger in the Tunnel
14	5	Ruskin Bond:The Tiger in the Tunnel
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>19EN408 : BRITISH PROSE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Charles Lamb: A Dissertation upon a Roasted pig
2	1	Charles Lamb: A Dissertation upon a Roasted pig
3	2	Stephen Leacock: My Lost Dollar
4	2	Stephen Leacock: My Lost Dollar
5	3	Robert Lynd: The Unexpected
6	3	Robert Lynd: The Unexpected
7	3	Robert Lynd: The Unexpected



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	CIA Exam
9	4	Somerset Maugham : Mr Know All
10	4	Somerset Maugham : Mr Know All
11	5	E. M. Forstet: Tolerance
12	5	Virginia Woolf: Profession For Women
13	5	Virginia Woolf: Profession For Women
14	2	CIA Exam
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>AEN404A : JOURNALISM AND MASS COMMUNICATION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Need for Communication Types of Communication Elements of Communication Barriers of Communication 7Cs of Communication Function and Uses of Mass Communication
2	1	Media of Communication Oral Communication Traditional form of Communication Communication through Mass media, Print media - Broadcasting Media, Multimedia Communication
3	2	What is Journalism? History of Journalism The Role of Press The Press as a Mass Media Freedom of the Press
4	2	Functions of the Press Press Organization/Press Council Journalism as a Career Qualification of a Successful Journalist The Journalism Writing Journalism in India, Past and Present
5	3	What is News? Collecting the Fact Reporting the News Editing the News
6	3	How to Write Headlines? The News Editor The Sub Editor The Editor and Editorial Policy
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Reporter The Chief Reporter and Other Correspondents
9	4	Feature Writing Writing for the Magazines
10	4	The Freelance Journalist
11	5	Radio Television
12	5	The Internet
13	5	Writing for Radio and Television
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>19EN407 : BRITISH DRAMA -II (VICTORIAN-MODERN AGE)</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Importance of Being Earnest
2	1	The Importance of Being Earnest
3	1	The Importance of being Earnest
4	2	Look Back in Anger
5	2	Look back in Anger
6	3	The Apple Cart
7	3	II CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Playboy of the Western World
9	4	The Playboy of the Western World
10	4	The Playboy of that Western World
11	5	The Family Reunion
12	5	The Family Reunion
13	5	The Family Reunion
14	5	II CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>19ABE303 : FUNDAMENTALS OF DIGITAL BANKING</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Banking And Digital Banking Products: Introduction –Banks- types of banks- types of bank accounts and procedure to open bank accounts- services provided in branch .
2	1	Need for Digital Banking Products - Digital Banking Products - Cards -Overview and brief history-Various types of cards - Product features .
3	1	EMV technology -New Technologies – Tap and Go, NFC, etc. - Approval Processes for Cards -Back End operations -Recovery and Follow up .
4	2	ATM: Overview and Brief History-Product Features -Instant Money Transfer -Systems - Advantages - Limitations.
5	2	Various Value-Added Services (eg., bill payments, donations, etc) -Proprietary, Brown Label and White Label ATM -ATM Network Planning .
6	2	Onsite / Offsite -Security and Surveillance of ATM Sites --Risk Management and Frauds-Back End operations and Technology .
7	3	Cash Deposit Machines: Overview and Brief History-Product Features -CDM Network Planning.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Onsite / Offsite -Risk Management and Frauds -Back End Operations and Technology -cash re-cyclers –Overview.
9	3	Product Features-Risk Management and Frauds-Back End Operations and Technology .
10	4	Internet And Mobile Banking: Internet banking: Overview and Brief History -Product Features -Corporate and Individual Internet Banking Integration with e-Commerce Merchant sites - Risk Management and Frauds.
11	4	Back End Operations and Technology-pos terminals-Overview and Brief History -Product Features-Approval processes for POS Terminals -Profitability of POS business Risk Management and Frauds -Back End Operations and Technology.
12	4	Mobile banking- Overview and Brief History -Product Features and Diversity -IMPS -Profitability of Mobile Banking -Risk Management and Frauds-Back End Operations and Technology.
13	5	Payment Systems: Overview of global payment systems - Overview of domestic payment systems-RuPay and RuPay Secure.
14	5	Immediate Payment Service (IMPS) -National Unified USSD Platform (NUUP) -National Automated Clearing House (NACH) -Aadhaar Enabled Payment System (AEPS).
15	5	e-KYC -Cheque truncation System (CTS)-National Financial Switch-(NFS) ,RTGS ,NEFT –payment through E-wallets .

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	English	Semester	3
Subject	LT303A : TAMIL - III	Course	English

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1. SEEVASINTHAMANI - NATTUVALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUVVA KAAPIYAM
12	4	4.4. ISLAMIYA KAAPIYAM
13	3	3.1. PERIYAPURANAM - ILLAIYANKUDI MAARANAYANAAR PURANAM
14	3	THEMPAAVANI - SETHAION VTRI PADALAM
15	3	SEERAAPURANAM - KAAMAPADALAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	IMPERUM KAAPİYANGAL - VILAKKAM
2	3	IYNGHCHIRU KAAPİYANGAL - VILAKKAM
3	3	PIRA KAAPİYANGAL , RETTAIKKAPIYANGAL - VILAKKAM
4	1	SILAPPATHIGARAM - KUNDRAK KURAVAI KAATHAI
5	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
6	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
7	2	SEEVAGA CHINTHAMANI - EMANGATHA NAATTU VALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	PANBALAI VANOLI NIGAZHCHI THOGUPPU VADIKAIYALER SEVAI MAIYA ALUVALER SUTTRULA VAZHIKATTI KADETHANGAL, POTHUKATTURAIGAL
9	5	SUTTRULA VAZHIKATTI KADETHANGAL, POTHUKATTURAIGAL
10	2	KAMBARAMAYANAM - KAIKEYE SOOZHCHI PADALAM
11	4	KIRUSTHUVA KAAPIYANGAL
12	4	ISLAMIYA KAAPIYANGAL
13	3	PEREYAPURANAM - ILAIYANKUDI MARANAYANAR PURANAM
14	3	THEMBAVANI - SETHAIYON VETTRI PADALAM
15	3	SEERAPURANAM - GAMAP PADALAM- NUBUVATHUKKANDAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettu thokai noolkal
2	1	Purananuru - 184, 204 ; Akananuru - 219, 351
3	1	Kunthogai - 20, 210; Natrinai - 21, 86
4	1	Ienkurunuru - Annaye pathu 1-5, Kalithogai - Kurinchikali 5
5	1	Paripadal - Vaiyai patham padal 71-131
6	4	Keezhkanakku noolkalil neethi noolkal
7	3	Thirukkural - Virunthombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Kallamai, Kuripparithal
9	4	Pathupattu noolgal
10	2	Sirupanatrupatai 111-145, 235-261
11	2	Mullai pattu 26-79
12	2	Madurai kanchi 238-270
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhithiran - pathirikaigalukku seithi varaithal, Surukki varaithal, Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. E. Arokiadoss</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Triphthongs 1. Making request and responding to request 2. Thanking someone and responding to thanks
2	1	Prose: How to be a Doctor-Stephen Leacock 1. Precis writing 2. Non-Finite verbs 3. Strong and weak verbs 4. The Auxiliaries
3	2	Strong and weak forms in Transcription 1. Inviting, Accepting and Refusing an invitation 2. Apologising and Responding to an apology
4	2	Poem: Auguries of innocence-William Blake 1. Note -making 2. Use of wrong preposition 3. Unnecessary use of Articles
5	3	I listening: 1. Homonyms and similar words 2. Tele-conferences II speaking: 1. Handling customers or clients
6	3	II speaking: 2. Receiving visitors III Reading: 1. Drama: Henry IV (part I)-Play Out A play-William Shakespeare 2. Novel: The Count of Monte Cristo- Alexandre Dumas(chapter 21-30) IV Writing: The use of graphics
7	3	I-CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	I listening: Homophones II speaking: 1.Booking hotel accommodation 2.Making small talk and telling stories
9	4	III Reading: 1.Drama: As you like it-patterns of love William Shakespeare 2.Novel: the count of Monte Cristo-Alexandre Dumas(chapter 31-40) IV writing: Negotiations
10	5	I Listening: Group Discussion
11	5	II speaking: 1.Making Appointments 2. Cancelling and Rescheduling Appointments
12	5	II speaking: 1.Making Appointments 2. Cancelling and Rescheduling Appointments
13	5	III Reading: 1.Drama: Hamlet-churchyard-William Shakespeare 2.Novel: The count of Monte Cristo-Alexandre Dumas (chapter 41-49) IV writing: Writing Review of books
15	5	IV writing: Writing Review of books
14	5	II-CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Imperunkaapiyangal
2	4	Inchirukaapiyangal
3	4	Irattai kaapiyangal
4	1	Silappathigaram - Kuntra Kuravai kaathai
5	1	Manimegalai - vuthayakumaranai vaalaal Erintha Kaathai
6	1	Manimegalai - vuthayakumaranai vaalaal Erintha Kaathai
7	2	Seevagasinthamani - Nattuvalam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai Vaanoli Nigazhchi Thoguppu, vaadikkaiyalar sevai Maiya Aluvalagam, Sutrulaa Vazhikaatti Kaditham Pothukatturai
9	4	Pirakappiyangal
10	2	Kamparaamayanam - Kaikeyi Soozhvinai Padalam
11	4	Kirithuva Kaapiyangal
12	4	Islamiya Kaapiyangal
13	3	Periyapuraanam
14	3	Thempaavani
15	3	Seerapuranam - Kaamaapadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>AEN404A : JOURNALISM AND MASS COMMUNICATION</b>	Course	<b>English</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT-I MASS COMMUNICATION-ORIGIN AND DEVELOPMENT 1. Need for Communication. 2. Types of Communication. 3. Elements of Communication. 4. Barriers of Communication. 5. 7-C's of Communication. 6. Functions and uses of Mass Communication.
2	1	7. Media of Communication-The Indian Context. 8. Oral Communication. 9. Traditional Forms of Communication. 10. Communication through Mass Media-Print Media-Broadcasting 11. Media, Multimedia Communication.
3	2	UNIT-II JOURNALISM 1. What is Journalism? 2. History of Journalism 3. The Role of the Press 4. The Press as a Mass Media 5. Freedom of the Press 6. Functions of the Press
4	2	7. Press Organization / Press Council 8. Journalism as a Career 9. Qualification of a Successful Journalist 10. The Journalistic Writing 11. Journalism in India, Past and Present
5	3	UNIT-III PRINT MEDIA 1. What is News? 2. Collecting the Fact 3. Reporting the News 4. Editing the News
6	3	5. How to write Headlines 6. The News Editor 7. The Sub-Editor 8. The Editor and Editorial Policy
7	3	CONDUCT OF I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
14	5	CONDUCT OF II CIA
15	5	REVISION OF ALL THE 5 UNITS
8	4	UNIT-IV REPORT WRITING 1. The Reporter 2. The Chief Reporter and other Correspondents
9	4	3. Feature Writing 4. Writing for the Magazines
10	4	5. The Freelance Journalist
11	5	UNIT-V ELECTRONIC MEDIA 1. Radio
12	5	2. Television 3. The Internet
13	5	4. Writing for Radio and Television

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. V. R. Suresh Kumar</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EN615S : LITERARY CRITICISM</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Philip Sidney : An Apology for Poetry
2	1	Philip Sidney : An Apology for Poetry
3	1	Philip Sidney : An Apology for Poetry
4	2	S.T. Coleridge : Biographia Literaria (Chapter XIV)
5	2	S.T. Coleridge : Biographia Literaria (Chapter XIV)
6	3	Matthew Arnold : The Study of Poetry
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	T.S. Eliot : Function of Criticism
9	5	An Introduction to Literary Theories i. The New Criticism
10	5	ii. Structuralist Criticism
11	5	iii. Psychoanalytic Criticism
12	5	iv. Postcolonial Criticism
13	5	v. Feminist Criticism
14	0	II CIA
15	0	SEMESTER REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. V. R. Suresh Kumar</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>EEN513S : THE HISTORY OF THE ENGLISH LANGUAGE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Origin of Language
2	1	General characteristics of English
3	1	The Indo_European family of Languages
4	2	Milton's Contribution to the Growth of English Language
5	2	Shakespeare's Contribution to the growth of English Language
6	2	The Influence of the Bible in the growth of English Language, The Role of Dictionaries in the making of English Language
7	3	The Growth of English Vocabulary, Loan words in English (Latin, French, Greek, Indian and Scandinavian)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	1CIA
9	4	Change of Meaning
10	4	Change of Meaning
11	4	Change of Meaning
12	5	Standard English
13	5	American English
14	5	Difference between British English American English
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>19EN509 : AMERICAN LITERATURE - I</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Brahma by Emerson
2	1	The Raven by Edgar Allan Poe
3	1	On the Beach at night by Walt Whitman
4	2	You Shall Above All the Things be Glad and Young by E. E. Cummings
5	2	Stopping by Woods on the Snowy Evening by Robert Frost
6	2	I Taste a Liquor Never Brewed by Emily Dickinson
7	3	The American Scholar by Emerson

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Where I Lived and What I Lived For by Thoreau
9	4	The Glass Menagerie by Tennessee Williams
10	4	The Glass Menagerie by Tennessee Williams
11	5	The Scarlet Letter by Hawthorne
12	5	The Scarlet Letter by Hawthorne
13	5	The Adventures of Tom Sawyer by Mark Twain
14	5	The Adventures of Tom Sawyer by Mark Twain
15	5	The Adventures of Tom Sawyer by Mark Twain

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>19EN614 : AMERICAN LITERATURE - II</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Because I could not stop for Death
2	1	Happiness and The Emperor of ice cream
3	3	The Meadow Mouse
4	2	The Negro speaks of rivers
5	3	All My Sons
6	3	The Caretaker
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Figure a Poem Makes
9	4	The Figure a Poem Makes
10	4	Nobel Prize Acceptance Speech
11	5	The Old Man and the Sea
12	5	The Old Man and the Sea As I Lay Dying
13	5	As I Lay Dying
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>19GEN66A : OFFICE AUTOMATION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Microsoft Office: Overview of the Office components (Word, Excel, Power Point, Access)–Identifying Common Screen Elements – Exiting a Program. Common Office Tool
2	1	Introduction to Microsoft Office: Overview of the Office components (Word, Excel, Power Point, Access)–Identifying Common Screen Elements – Exiting a Program. Common Office Tool
3	1	Common Office Tools and Techniques: Switching from one application to another – Sizing and Arranging Windows – Working with Menus – Working with Dialog Boxes – Working with Toolbars .- Using the Clipboard to cut, copy and paste.
4	2	Starting Word: Starting a New Document – Opening an Existing File – Saving a Document – Printing a Document – Closing a Document.
5	2	Typing Text – Inserting, Selecting and Deleting Text – Using Undo and Redo – Inserting Special Characters or symbols – Formatting Characters (Changing Fonts and Font Sizes, Applying Bold, Italic or Underline,
6	2	Changing Text Case – Drop Caps) – Margins & Gutters - Working with Bulleted or Numbered Lists – Aligning Text – Borders and Shading - Formatting Paragraphs – Line Spacing
7	3	Working with AutoCorrect and AutoFormat Using Find and Replace



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Using Find and Replace –Working with Tabs Correcting Spelling and Grammatical Errors – Working with Headers and Footers –
9	3	Working with Tables. Working with Graphics: Importing Graphics – ClipArt Gallery – Drawing Objects.
15	5	Working with Presentation Special Effects.
10	4	Using Excel: Creating s Simple Spreadsheet
11	4	Editing a Spreadsheet – Working with Functions and Formulas
12	4	Formatting Worksheets – Creating Charts.
13	5	Creating & Viewing Presentations
14	5	Editing a Presentation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EEN618S : WOMEN S WRITING</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Eve to her Daughters
2	1	Eve to her Daughters
3	2	A Raisin in the Sun
4	2	A Raisin in the Sun
5	2	A Raisin in the Sun
6	3	A Vindication of the Rights of a Woman
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Ladies Coupe
9	4	Ladies Coupe
10	4	Ladies Coupe
11	4	Ladies Coupe
12	4	Ladies Coupe
13	5	A Devoted Son
14	0	II CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>19EN511 : BRITISH FICTION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Pride and Prejudice
2	1	Pride and Prejudice
3	1	Pride and Prejudice
4	2	The Tale of Two Cities
5	2	The Tale of Two Cities
6	2	The Tale of Two Cities
7	3	The Invisible Man

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Invisible Man
9	4	Animal Farm
10	4	Animal Farm
11	4	Animal Farm
12	5	The power and the Glory
13	5	The Power and the Glory
14	5	The Power and the Glory
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EEN617S : AN INTRODUCTION TO MODERN LINGUISTICS</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Sounds and Symbols
2	2	Air Stream Mechanism
7	3	I CIA EXAMINATIONS
14	4	II CIA EXAMINATIONS
15	4	Revision
8	4	Morphology
9	4	Morphology

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	4	Classification of Morpheme
11	4	Classification of Morpheme
12	4	Word Formation
13	4	Word Formation
3	2	Organs of Speech
4	2	Description of Vowels
5	2	Description of Consonants
6	2	Description of Diphthongs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>EN510S : SHAKESPEARE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Twelfth Night ( Detailed) - William Shakespeare Act - 1
7	0	I CIA Exam
14	0	II CIA Exam
15	0	Revision
2	1	Twelfth Night ( Detailed) - William Shakespeare Act - 2,3
3	1	Twelfth Night ( Detailed) - William Shakespeare Act - 4,5
4	3	Henry IV ( Part - I ) - William Shakespeare ( Non - Detail) Act - 1,2,3



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	Henry IV (Part - I) - William Shakespeare ( Non - Detail) Act - 4 & 5
6	5	Sonnet 12 & 16 - William Shakespeare
8	2	Macbeth ( Detailed) - William Shakespeare Act - 1 ,2
9	2	Macbeth (Detailed) - William Shakespeare Act - 3
10	2	Macbeth ( Detailed) - William Shakespeare Act - 4 & 5
11	4	Julius Caesar - William Shakespeare ( Non - Detail) Act - 1,2
12	4	Julius Caesar - William Shakespeare ( Non - Detail) Act - 3,4 & 5
13	5	Sonnet - William Shakespeare : 60 & 113

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EEN617S : AN INTRODUCTION TO MODERN LINGUISTICS</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Characteristic of Language
2	1	Difference between Human and Animal Means of Communication Received Pronunciation
3	1	Standard English
4	3	Phonology ( Phonemes, Allophones)
5	3	The Syllable Stress
6	3	Rhythm in connected Speech Assimilation Elision
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Syntax : An Introduction - I.C Analysis Semantic Structure - An Introduction
9	5	Components of Semantic Structure a) Synonymy
10	5	Antonymy Hyponymy
11	5	Polysemy Ambiguity
12	5	Contradiction
13	5	Incompatability
14	5	II CIA Exam
15	5	Revision & Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>6</b>
Subject	<b>EEN618S : WOMEN S WRITING</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Detailed Poetry The Bangle Seller - Sarojini Naidu
2	1	The Fish - Elizabeth Bishop
3	1	Dream Love - Christina Rossetti
4	1	Siren Song - Margaret Atwood
5	3	Male Culture, Female Strategies (Prose) - Ranjana Harish
6	3	Male Culture, Female Strategies (Prose) - Ranjana Harish
8	4	Toni Morrison : Tar Baby ( Non - Detailed)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	Toni Morrison : Tar Baby ( Non -Detailed)
10	4	Toni Morrison: Tar Baby (Non -Detailed)
11	5	A Devoted Son : Anita Desai ( Non -Detailed)
12	5	A Devoted Son : Anita Desai (Non -Detailed)
13	5	A Devoted Son: Anita Desai (Non -Detailed)
7	3	I CIA Exam
14	5	II CIA Exam
15	5	Revision & Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>5</b>
Subject	<b>EEN512S : COMMONWEALTH LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Loneliness by Faiz Ahmed Faiz The Dying Eagle by E. J. Pratt
2	1	Words for Father by Shirley Lim Words by Edwin Thumboo
3	1	Australia by A. D. Hope
4	2	The Novelist as a Teacher by Chinua Achebe Roughing it in the Bush by Susanna Moodie
5	3	The Lion and the Jewel by Wole Soyinka
6	3	Nagamandala by Karnad
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Stone Angel by Margaret Lawrence
9	4	The Stone Angel by Margaret Lawrence
10	4	A House of Mr. Biswas by V. S. Naipaul
11	4	A House of Mr. Biswas by V. S. Naipaul
12	5	Wrestling by Ambai
13	5	A Basket of Strawberries by Alice Munro
14	0	II CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>2</b>
Subject	<b>HI204S : TRAVEL AGENCY AND HOSPITALITY MANAGEMENT</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	History and Growth of Travel Agency Business- Emergence of Thomas Cook-
2	1	Indian Travel Agents and Tour Operators
3	1	Characteristics of Travel Agents and Tour operator- Business Trends of Travel Agency.
4	2	Travel Agencies: Profile, Role and Function of a Modern Travel Agency-
5	2	Government rules for getting approval- IATA rules and regulations for accreditation-
6	2	Sources of Earning- Entrepreneurial Skill for Travel, Tourism and Hospitality Trade.
7	3	Travel Regulations: Travel/ Tourist Guides and Guide craft- Passport/ Visa and Banking Exchange-



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Travel Formalities- Travel Insurance
9	3	Itinerary Preparation- Ticketing Procedures.
10	4	Accommodation and Hospitality- Historical Evolution of Hospitality Industry- Global and Indian Context-
11	4	Modes of Accommodation- Hotels and Motels- Star Hotels-
12	4	Indian and International Hotel chains- Supplementary Accommodation- Granting Star Category.
13	5	Functional Units in Hotel Organizational Structure: Front Offices- Back Offices-
14	5	Major Hotel Groups in India- hotel Plan- Types of Menu-
15	5	Guest Relationship Management- Compliant Handling and Handling Emergencies

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V.Ramalingam Pillai - Tamilan Idayam (Prarthanai) Pavalararu Parunchithiranar - kanicharu
4	1	Kanadasan - Thavaru - Manipu
5	5	Ilakanam - Mathal Ezuthu, sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val Ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Thamizhanban - Vetrimgam Vairamuthu - Suthanthiram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendriu Kacithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathai - Orunal Kazinthathu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Palaverkala Ilakiyangal
2	1	Vallalar - Thiruvarkodai Thiruganasambanthar - Muthal Thirumozhi - Thirualavai
3	1	Pariyazvar - Thirupalandu Namazvar - Patham Thiruvazmozhi
4	1	Vannakalangiyapulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Urainadai - Thortamum Valarchiyum
6	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (1 - 6)
7	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (7 - 12)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (13 - 18)
12	4	Ilakiyavaralaru - Sidhar Ilakiyam Arimugam
13	2	Arunagirinather - Thirupugaz (Thiruchendur) Patinathar - Thiruthillai (1 - 5)
14	2	Patinathar - Thiruthillai (6 - 10) Sivavakiyar _ Padal 9.10.11
15	5	Ilakanam Yapilakanam - Ezuthu, Asai , Seer, Adi Vatruporul Vaipu Anni
9	4	Ilakiyavaralaru - Thortamum Valerchiyum
10	2	Palapadai Sokanatha Pulaver - Alager Killaividu Thoothu
11	2	Pagazhikoother - Thirucendur Murugan Pillaithamizh Kumaragurubarer - Madurai Meenatchiyammai Irataimanimalai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALACHANDAR V</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>2</b>
Subject	<b>HI203S : HISTORY OF INDIA- II (FROM 1206 A.D TO 1761 A.D)</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sources of the study of Medieval India- Archaeological, Literary, Chronicles,
2	1	Auto-biographies and Biographies and Travelogues-
3	1	Alberuni- Circumstances for the rise of Delhi Sultanate.
4	2	The Slave and Khilji Dynasties: Qutb-ud-din-Aibak, Iltutmish- Raziya Begum- Ghiyas-ud-din Balban and his Forty-
5	2	Administration- Jalal-ud-din FirozKhilji- Ala-ud-din Khilji- Expansion of the Empire-
6	2	Economic Measures- Market Regulations- Reforms in the Army- Successors of Ala-ud-din Khilji.
7	3	The Tughluq, Sayyid and Lodi Dynasties: Mohammed-bin-Tughluq- Firoz Shah Tughluq- Timur's Invasion- Aspects of Tughluq Rule-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Sayyid Sultans- Sikandar Lodi and Ibrahim Lodi- Administration of Sultanate-
9	3	Art and Architecture under the Sultans- Literary development under Sultans- Vijayanagar and Bahmani Rule.
10	4	The Great Mughals: Babur- Humayun- Sur Interregnum-
11	4	Akbar's Rajput and Religious Policies- Jagirdari and Mansabdari System- Jahangir and Nurjahan Junta
12	4	Golden Age of Shahjahan- Policies of Aurangazeb- Mughal Administration.
13	5	Decline of the Mughal Empire- Rise of Marathas- Shivaji's Administration- The Peshwas and Third Battle of Panipat- The Regional Kingdoms- Major elements of Composite Culture.
14	5	The Peshwas and Third Battle of Panipat
15	5	The Regional Kingdoms- Major elements of Composite Culture.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	English speech sounds constant Meetings people exchange greetings
2	2	Forgetting Robert Lynd (prose)
3	2	Letter writing informal letter The sentence Parts of speech
4	2	Purevowels Giving personal information
5	2	Mending wall (Robert Frost)
6	3	Letter writing Noun clauses
7	3	Comparison adjectives Diphthongs



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Taking & leaving messages
9	3	Time and love _ William Shakespeare
10	4	Phonetics transcription
11	4	Article Pronoun Mother Teresa (prose)
12	4	One act play ( the best laid) farrrel Mitchell
13	5	Voice & voiceless
14	5	Dealing with wrong number
15	5	The selfish giant -Oscar Wilde Verbs - moods and tenses

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>1</b>
Subject	<b>PEAS01A : PROFESSIONAL ENGLISH FOR ARTS &amp; SOCIAL SCIENCES - I</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening - Listening to text & answers the questions
2	1	Speaking - Role Play
3	2	Unit 2 Reading - Comprehension
4	2	Writing - Essay Writing
5	3	Unit 3 Listening - Listening to Lecherous
6	3	Speaking - Mind-Mapping
7	4	Reading - Reading Comprehension

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Writing - Writing Recommendation Creative Writing
9	5	Listening - Listening to Interviews of Specialists
10	5	Speaking - Power Point Presentation
11	5	Reading - Note- Making
12	5	Writing - Summary Writing
13	5	Listening - Listening to text & answers the questions Speaking - Role Play revision
14	5	Writing - Writing Recommendation Creative Writing revision
15	5	Listening - Listening to Interviews of Specialists Speaking - Power Point Presentation Reading - Note- Making Writing - Summary Writing revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>2</b>
Subject	<b>PEAS02A : PROFESSIONAL ENGLISH FOR ARTS &amp; SOCIAL SCIENCES</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Communication Listening to audio text and answering text
2	1	Pair work small group discussion
3	1	Different between fact & opinion
4	2	Listening description Drawing a flow chat Role play ( formal context)
5	2	Skimming & scanning Reading project Equipment & gadgets
6	2	Writing process description Compare & contrast
7	3	ICIA Negotiations strategies Listening interview specialist Brain storming Group discussion Longer reading text & writing

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Presentation skills Short talk
9	4	Reading comprehension passage
10	4	Writing recommendation Interpreting visually code
11	4	Visual input Incorporate into the LSRW
12	4	Register specific
13	5	Critical thinking skill Listening for information PPT
14	5	Compherion passive Note making Motivational speaker on professional competition Problem solving skills LSRW tasks
15	5	II CIA Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthava Kap[iyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	History	Semester	4
Subject	LT404A : TAMIL - IV	Course	History

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiyavaralaru - Etuthogai
2	1	Purananooru - 184, 204 Agananooru - 219, 351
3	1	Kurunthogai -20, 210 Nartinaai - 21, 81
4	1	Ingurunooru - annai Pathu 1 - 5 Kalithogai - Kuringikali
5	1	Paribadal 71 - 131
6	4	Ilakiyavaralaru - Keelkanakil Neethi Noolgal
7	3	Thirukural - Virunthombal , Kalaamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural - Kalaamai, Kuriparithal
9	4	Ilakiyavaralaru - Pathupattu
10	2	Sirupaanartupadai - 111 - 145, 235-261
11	2	Mullaipatu - 26 - 79
12	2	Maduraikangi - 238 - 270
13	2	Patinapalai - 1 - 59
14	2	Patinapalai - 1 - 59
15	5	Mozhithiran

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALACHANDAR V</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>4</b>
Subject	<b>20HI408 : HISTORY OF TAMIL NADU FROM 850 A.D TO 1565 A.D</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sources for the History of the Later Cholas -Vijayalaya - Aditya I - Parantaka I Their achievements -
2	1	Rajaraja I - Rajendra I
3	1	Kulottunga I and their Successors - Decline of the Imperial Cholas.
4	2	Chola administration -Central Administration
5	2	Village administration -Kudavolai system - Religious condition
6	2	Contribution to Art and Architecture
7	3	Sources for the history of the Second Pandyan Empire- Kulasekhara I

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Maravarma Sundara Pandya I -Maravarman Kulasekhara I - Their achievements
9	3	Decline of the Second Pandyan Empire
10	4	Marco Polo's Visit
11	4	Invasion of Muslims
12	4	The Sultanate of Madurai
13	5	Foundation of Vijayanagar Empire – Harihara – Bhukka – Venkata I
14	5	Krishnadevarayar and their successors – Nayaks of Madurai, Tanjore and Gingee
15	5	Vijayanagar Administration – Growth of Literature – Battle of Talaikotta

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	History	Semester	4
Subject	NZOFC401 : ORNAMENTAL FISH CULTURE	Course	History

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The potential scope of Ornamental fish culture as a Cottage Industry.
2	1	Exotic and Endemic species of Aquarium Fishes.
3	1	Exotic and Endemic species of Aquarium Fishes.
4	2	Common characters and sexual dimorphism of Fresh water and
5	2	Marine Ornamental fishes such as Guppy, Molly, Sword tail, Gold fish, Angel Fish, Blue Morph,
6	2	Anemone fish and Butterfly fish.
7	3	Food and feeding of Ornamental fishes



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	use of live fish feed organisms. Preparation and composition of formulated fish feeds.
9	3	Preparation and composition of formulated fish feeds.
10	4	Live fish transport – Fish handling, packing and forwarding techniques.
11	4	Fish handling, packing
12	4	packing and forwarding techniques.
13	5	General Aquarium maintenance
14	5	budget for setting up an aquarium fish farm as a cottage industry.
15	5	budget for setting up an aquarium fish farm as a cottage industry.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>4</b>
Subject	<b>NZOFC401 : ORNAMENTAL FISH CULTURE</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT – I The potential scope of Ornamental fish culture as a Cottage Industry. Exotic and Endemic species of Aquarium Fishes.
2	1	Exotic and Endemic species of Aquarium Fishes.
3	1	Exotic and Endemic species of Aquarium Fishes.
4	2	UNIT – II Common characters and sexual dimorphism of Fresh water and Marine Ornamental fishes such as
5	2	Guppy, Molly, Sword tail, Gold fish, Angel Fish, Blue Morph,
6	2	Anemone fish and Butterfly fish.
7	3	UNIT – III Food and feeding of Ornamental fishes –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	use of live fish feed organisms.
9	3	Preparation and composition of formulated fish feeds.
10	4	UNIT – IV Live fish transport – Fish handling, packing and forwarding techniques.
11	4	Live fish transport – Fish handling, packing and forwarding techniques.
12	4	Live fish transport – Fish handling, packing and forwarding techniques.
13	5	UNIT – V General Aquarium maintenance –
14	5	budget for setting up an aquarium fish farm as a cottage industry.
15	5	budget for setting up an aquarium fish farm as a cottage industry.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	LISTENING-NARRATION WELCOMING THE GATHERING INTRODUCING THE CHIEF GUEST THANKING THE GATHERING AND ORGANISERS
2	1	ONE ACT PLAY-REFUND PUBLICITY LITERATURE
4	2	GIVING ONE'S OPINION ON CURRENT NATIONAL/SOCIAL ISSUES SPOTTING ERRORS
3	2	LISTENING QUIT INDIA- GANDHI TRYST WITH DESTINY- NEHRU
5	2	ONE ACT PLAY- THE BEAR-ANTOV CHEKHOV
6	3	PROSE-LISTENING GETTYSBURG ADDRESS- ABRAHAM LINCOLN I HAVE A DREAM-MARTIN LUTHER KING JR PREPARING NEWS ITEM OF LOCAL EVENTS
7	3	ONE ACT PLAY- THE HOUR OF TRUTH-PERCIVAL WILDE EMAIL WRITING SAMPLE NEWS ITEM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	CIA-I
9	4	LISTENING INAUGURAL ADDRESS- JOHN F KENNEDY - PROSE PREPARED TO DIE- NELSON MANDELA- PROSE
10	4	SPEAKING PRESENTATION SKILLS WRITING RESUME WRITING
11	4	READING AUTOBIOGRAPHY SORROWS OF CHILDHOOD-CHARLIE CHAPLIN
12	5	LISTENING SOME USEFUL EXPRESSIONS SPEAKING SPEECH WRITING WRITING MINUTES WRITING
13	5	READING BIOGRAPHY 1. MARIE CURIE- COLIN MITCHELL 2. SAROJINI NAIDU- PADMINI SENGUPTA
14	5	CIA-II
15	5	REVISION OF ALL THE TOPICS DISCUSSED

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
7	3	CONDUCT OF I CIA
14	5	CONDUCT OF II CIA
15	5	REVISION OF ALL THE 5 UNITS
1	1	I. Listening: Mock – Interviews / Actual Interviews II. Speaking: 1. Facing an Interview 2. Tele – Interviews IV. Writing: Description
2	1	III. Reading 1. Drama: Julius Caesar - Funeral Oration – William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 01-10)
3	2	I. Listening: Words often confused II. Speaking: Seminar Skills IV. Writing :Idioms and Phrases
4	2	III. Reading 1. Drama: Macbeth- He Kills Sleep -William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 11-20)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	I. Listening: 1. Homonyms and Similar words 2. Tele – conferences II. Speaking: 1. Handling Customers or Clients 2. Receiving Visitors IV. Writing: The use of Graphics
6	3	III. Reading 1. Drama: Henry IV (Part I) -Play out a Play – William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 21-30)
8	4	I. Listening: Homophones II. Speaking: 1. Booking Hotel Accommodation 2. Making Small Talk and Telling Stories
9	4	III. Reading 1. Drama: Patterns of Love – As You Like It - William Shakespeare
10	4	2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40) IV. Writing Negotiations
11	5	I. Listening: Group Discussions II. Speaking: 1. Making Appointments 2. Cancelling and Rescheduling Appointments
12	5	III. Reading 1. Drama: Hamlet – Churchyard - William Shakespeare
13	5	2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-49) IV. Writing :Writing Review of Books

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALACHANDAR V</b>	Academic Year	<b>2022-2023</b>
Department	<b>History</b>	Semester	<b>6</b>
Subject	<b>19HI614 : HISTORY OF EUROPE - II (1789 A.D - 1945 A.D)</b>	Course	<b>History</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Background of the French Revolution - Causes of the French Revolution
2	1	Results of the French Revolution - Rise of Napoleon
3	1	Achievements and Failure of Napoleon.
4	2	Vienna and other Congresses - Revolutions of 1830 and 1848 -
5	2	Unifications of Italy and Germany and their Emergence as strong powers
6	2	Industrial Progress.
7	3	The Third French Republic - Problems and Achievements - Colonial expansion by Great Britain, France,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Colonial expansion by Germany, Italy and Russia-Great Assertion of National States
9	3	Dual Monarchy in Austria-Hungary - Problems and Achievements.
10	4	Internal problems and Revolutions 1870 - 1905 -The Bolshevik Revolution of 1917
11	4	Internal Reconstruction and the New Economic Policy
12	4	The Eastern Questions.
13	5	Origin of World War I - Progress and Peace Treaties - Inter War Period
14	5	Nazism - Germany - Hitler - Fascism -Italy - Mussolini
15	5	Origin of World War II - Progress and Peace Treaties - U.N.O.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>EBT201 : BASIC TAMIL</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	oru sol vinakal
2	1	agaravarisai
3	1	thirukural
4	1	kalaisol akam
5	2	marabu thoodergal
6	2	Sarthu pirithu eluthuthasl
7	3	oli oli varubadu

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	muthal eluthin martam
9	4	vilangu niram malar nathigal
10	4	paravai payer eluthuthal
11	4	moovanthergal inangal payersol vinaisol pal
12	4	moovanthergal inangal payersol vinaisol pal
13	4	moovanthergal inangal payersol vinaisol pal
14	5	angilathil mozhipayerthal
15	5	angilathil mozhipayerthal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Tamil	Semester	1
Subject	TA101A : IKKALA ILAKKIYAM	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Barathiyar - penmaivazhga
2	1	Bharathidasan - kannan pattu - kannan en kathali
3	1	Bharathidasan - sanjeve parvathathin saral
4	1	Bharathidasan - sanjeve parvathathin saral
5	1	Bharathidasan - sanjeve parvathathin saral
6	3	Sirukathai - Akkini pravasaam
7	3	Sirukathai - Agrakarathu poonai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sirukathai - puthu serupu
9	5	Nadagam Thortam Valerchi
10	5	Ku.pa.Balasubramaniam - Tamiz pani
11	5	Kowthama Buthur - Nadaga Uripinargal Arimugam
12	5	Kowthama Buthur - Nadaga kathai surukam
13	5	Kowthama Buthur - Nadagam
14	5	Kowthama Buthur - Nadagam
15	5	Kowthama Buthur - Nadagam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHNBOSCO A Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>ATA101A : TAMILAGA VARALARUM MAKKAL PANPADUM - I</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Thamizhagaththin Adippadai Atharangal
2	1	Thamizhagaththin Adippadai Atharangal
3	1	Thamizhagaththin Adippadai Atharangal
4	1	thamizhagaththin Iyarkkai amaippugal
5	1	thamizhagaththin Iyarkkai amaippugal
6	1	Varalarrukkalaththu Munthiya Thamizhagam
7	1	Varalarrukkalaththu Munthiya Thamizhagam



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Sithuveli Agazh Aarachi
9	2	Sithuveli Agazh Aarachi
10	4	Pannai Thamizharin Vaazhkkai
11	4	Pannai Thamizharin Vaazhkkai
13	5	Pallavargai
14	5	Thamizhgarhthil 4 muthal 9varai Samuga Nilai
15	5	Thamizhgarhthil 4 muthal 9varai Samuga Nilai
12	5	Kalappirargal

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### LESSON PLAN

Name of the Staff	<b>SELVANATHAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening English speech sounds Meeting people exchanging greetings and taking leave
2	1	Introducing people to others Forgetting - Robert lynd
3	1	Letter writing The sentence Parts of speech
4	2	Speech sounds pure vowels Giving personal information
5	2	Talking to people Mending wall - Robert frost
6	2	Letter writing Nouns clauses and gender Nouns number and case Adjectives Comparison of adjectives
7	3	Diphthongs Taking and leaving messages

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Time and Love - William shakespeare - poem Dialogue writing Pronouns -personal reflexive and emphatic
9	3	Pronouns -Demonstrative, indefinitive,interrogative Distributive pronoun and reciprocal Pronoun relative
10	4	Phonetic transcription Answering the telephone and asking for someone
11	4	Mother Teresa -John Fraser -prose
12	4	The best laid plans - Farrell mitchelv-one act play Reading comprehension
13	4	Verbs Transitive and intransitive Verbs active and passive voices
14	5	Voiced and voiceless sounds Dealung with a wrong number The selfish giant- Oscar wilde
15	5	Verbs mood and tense Concord of the agreement

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### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>ATA202A : TAMILAGA VARALAARUM MAKKAL PANPADUM - II</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SOZHAPERASIN THOTTRAM
2	1	SOZHAPERASIN VALARCHIUM VEEZHCHIUM
3	1	SOZHAR KAALATHIL THAMIZHARIN SAMUTHAAYAM
4	2	PAANDIYARIN ATTRAMUM VEEZHCHIUM
5	2	PAANDIYARIN ATTRAMUM VEEZHCHIUM
6	2	MADURAI NAAYAKKARGAL
7	3	THAMIZHAGATHIL 13 MUDAL 18 AAM NOOTRANDU VARAI SAMUGA NILAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	THAMIZHAGATHIL 13 MUDAL 18 AAM NOOTRANDU VARAI SAMUGA NILAI
9	3	THAMIZHAGATHIL 13 MUDAL 18 AAM NOOTRANDU VARAI SAMUGA NILAI
10	4	EYEROPIYAR VARAVU
11	4	PATHTHONPATHAAM NOOTRAANDIN ARASIYAL
12	4	THAMIZHAGATHIN SAMUGA NILAI
13	5	IRUPATHAM NOOTRANDIL THAMIZHAGAM
14	5	IRUPATHAM NOOTRANDIL THAMIZHAGAM
15	5	IRUPATHAM NOOTRANDIL THAMIZHAGAM

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Tamil	Semester	1
Subject	LT101B : TAMIL - I	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

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### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Tamil	Semester	2
Subject	21LT02 : TAMIL - II	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. PALLAVAR KAALAM - ILLAKIYANGAL
2	1	1.1. VALLALAAR - THIRUVARUTKODAI ( 4798, 4799, 4802) 1.2. THIRUNANASAMPANTHAR - MUDAL THIRUMURAI - THIRU AALAVAYUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (1 - 6)
7	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (7 - 11)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

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### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Tamil	Semester	2
Subject	ATA202A : TAMILAGA VARALAARUM MAKKAL PANPADUM - II	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SOZHAPERASIN THOTTRAM
2	1	SOZHAPERASIN VALARCHIUM VEEZHCIUM
3	1	SOZHAR KAALATHIL THAMIZHARIN SAMUTHAAYAM
4	2	PAANDIYARIN ATTRAMUM VEEZHCIUM
5	2	PAANDIYARIN ATTRAMUM VEEZHCIUM
6	2	MADURAI NAAYAKKARGAL
7	3	THAMIZHAGATHIL 13 MUDAL 18 AAM NOOTRANDU VARAI SAMUGA NILAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	THAMIZHAGATHIL 13 MUDAL 18 AAM NOOTRANDU VARAI SAMUGA NILAI
9	3	THAMIZHAGATHIL 13 MUDAL 18 AAM NOOTRANDU VARAI SAMUGA NILAI
10	4	EYEROPIYAR VARAVU
11	4	PATHTHONPATHAAM NOOTRAANDIN ARASIYAL
12	4	THAMIZHAGATHIN SAMUGA NILAI
13	5	IRUPATHAM NOOTRANDIL THAMIZHAGAM
14	5	IRUPATHAM NOOTRANDIL THAMIZHAGAM
15	5	IRUPATHAM NOOTRANDIL THAMIZHAGAM

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### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	ILLAKKIYA VARALARU - IRUBATHAM NOOTTRANDU KAVIGHERGAL
2	1	BARATHIYARIN KAANINILAM VENDUM BHARATHIDASSANIN NAATTIYAL NAATTUVOM
3	1	NAMAKAL VE RAMALINGAM PILLAIYIN THAMIZHAN ITHAYAM PAVALERERU PERUNCHITHRANARIN KANICHARU
4	1	KANNADASANIN THAVARU- MANNIPPU SURATHAVIN MELADAI KAVITHAI
5	5	ILLAKANAM - MUTHAL EZHUTHUKAL, SAARBEZHUTHUKKAL
6	5	VALOTTRU MIGUMIDAM VALOTTRU MIGAVIDAM
7	3	PUTHUKAVITHAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	AREVUMATHIYIN POOTHA NERUPPU MEERAVIN PILLAITHAMIZH
9	2	ERODU THAMIZHANBANIN VETTRE MUGAM VAIRAMUTHUVIN SUTHANTHIRAM
10	2	SIRPI- ABDULKALAMIN VEENAI
11	2	HAIKKO KAVITHAIGAL- AMUTHABHARATHIYIN KATTRIN KAIGAL, BOOBATHIRAJAVIN RAJANGAM, NANDAVANAM- SANTHIRASEGARAN, THURAVI
12	2	SENREYUK KAVITHAIGAL-
13	3	ILLAKKIYA VARALARU- SIRUKATHAI THOTTRAMUN VALARCHIYUM
14	4	SIRUKATHAI- KADAVULUM KANDASAMI PILLAIYUM ORUNAAL KAZHINTHATHU
15	4	KAALANUM KIZHAVIYUM AGALYAI

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### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>VET101A : VALUE EDUCATION</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	VIZHUMAKALVI- VIZHUMANGAL
2	1	VIZHUMAVAGAIPADUGAL- KUDUMBAM PUTHU SAMUTHAYATHIN PANGU
3	1	VIZHUMAKALVI KARPATHAN AVASIYAM
4	2	MANAPANMAIYUM NADATHAIYUM
5	2	MANAPANMAIYAI URUTHIPADUTHUM KARANIGAL
6	2	MANAPPANMAI KOTPAADUGAL
7	3	NERMARAI ULAVIYAL - NERMARAI MANA NALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	SELEGIMANIN MAGIZHVIN MATHIRIGAL, THUNIVAI VELIPADUTHUM VAZHKKAIKOORUGAL
9	4	SIKKALGALIN THEERVU URUVAKKAM - PADAIPATRAL, PAREMANAGAL
10	4	ILLAKKU URUVAKATHIL THANI MANITHAN VS KUZHUMUM PERUMIDAM
11	4	KUZHUMA AMAIPPIL YERPADUM NIRAI KURAIGAL
12	5	MENTHIRANGAL - THALAIMAI PANBUKOORUGAL
13	5	THALAIVER ENBAVER URUVAKUBAVER, MELANMAIYALER, KANKAANIPALER
14	5	THALAIVER ENBAVER OOKAPADUTHUBAVER, NEREYALER, ORUNGINAIPALER
15	5	THALAIVER ENBAVER THATHUVAGHYANI, SAANDRON, ANUBAVASAALI, MANITHA NEYA URUVU MEMBADUTHUBAVER

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### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>EPDT201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	AALUMAI - AREMUGAM, AALUMAIYAI THEERMAANIKKUM KARANIGAL, VUYEREYAL, VUDALIYAL KAARANIGAL
2	1	VULAVIYAL KAARANIGAL, THARKKARUTHU, PANPATTU KAARANIGAL
3	2	MURPOKKU SAMOOGA NADATHAIGAL -VARAYARAI, VILLAKAM SAMOOGA NADATHAIYUM MANITHANEYA KAAVALARUM
4	2	VUTHAVIKKANA NADATHAIYAI PATHIKKUM KAARANIGAL
5	2	SAMOOGA KATTRAL KOLGAI , OOKKATHIN POOKKU , PARASPARAM MATTRUM SAMOOGA NEREEGAL
6	3	MANA NALAM - MANANALATHIN IYEYALBUGAL
7	3	MANA NALATHIRKKANA KAARANIGAL - VUYEREYAL , VULAVIYAL KAARANIGAL



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	MANA NALATHIRKKANA VAZHIMURAIGAL
9	4	OOKKAM - AREMUGAM, VARAIYARAIGAL, VAGAIPPAADUGAL
10	4	OOKKAM KURETHA KOTTPPAADUGAL
11	4	OOKKAM PAYANPAADUGAL , KURAIPAADUGALUKKANA KAARANIGAL
12	5	AALUMAIYAI ALAVIDAL - NERMUGAM , VUTTRU NOOKKAL, NADATHAI ALAVIDAL
13	5	AALUMAI SOTHANAIGAL - PURATHETTRU NUNMURAI SOTHANAI ROERSHAKKIN MAITHADA SOTHANAI
14	5	PORUL AREVODU INNAITHARE SOTHANAI , KUZHANTHAIGALUKKANA VAARTHAI INNAIPPU SOTHANAI , VAAKKIYA MUDEVU SOTHANAI
15	5	AALUMAI ALAVIDALIN PAYANPAADUGAL

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### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>TA102A : NANNOOL EZHUTHATHIKARAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	NANNOOL- PAAYIRAM , PATHU VAGAI AZHAGU, PATHU VAGAI KUTTRAM
2	1	PAAYIRAM- 32 VAGAI UTHIGAL, OTHU, PADALAM, SOOTHIRAM, URAIVAGAI
3	1	PAYIRAM- AASIREYAR THAGUTHI NILAI- , MAANAKKER THAGUTHI NILAI
4	1	POTHU , SIRAPPU PAAYIRAM VILAKKAM
5	2	EZHUTHIYAL- MUTHAL, SARBU EZHUTHUKKALIN VAGAIGAL
6	2	EZHUTHIYAL - ENN, PEYAR, MURAI, PIRAPPU, URUVAM, MATHIRAI VILAKKAM
7	2	EZHUTHIYAL - MUTHAL , IEDAINILAI , IRUTHINILAI, POLI EZHUTHUKKALIN VILAKKAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	PATHAVIYAL - PAGUPATHAM , PAGAPATHAM VILAKKAM
9	3	PATHAVIYAL - PAGUTHI, VIGUTHI, IDAINILAI
10	4	UYIREETTRUP PUNAREYAL - VADAMOZHIIYAKKAM
11	4	UYIREETTRUP PUNAREYAL- VILAKKAM
12	5	MEIYEETTRU PUNAREYAL - VILAKKAM
13	5	MEIYEETTRU PUNAREYAL - VILAKKAM
14	5	URUBU PUNAREYAL - VILAKKAM
15	5	URUBU PUNAREYAL - VILAKKAM

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### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>TA204A : NANNOOL SOLLATHIKARAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	PEYAREYAL- SOL ILLAKKANAM, SOLLIN VAGAIGAL
2	1	PEYAREYAL- VUYERTHINNAI, AGGRENAI PEYERGAL
3	1	PEYAREYAL- AAGUPEYERGAL, VETTRUMAI
4	2	VINAIYEYAL - THERENILAI VINAISOL
5	2	VINAYEYAL - PEYERECHEM
6	2	VINAIYEYAL - VINAIYECHA VAAYPPAADUGAL
7	3	IDAIYEYAL - POTHU ILLAKKANAM, IDAI SORKKAL,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	POTHUVIYAL - THOGAANILAI THODERGAL
9	4	POTHUVIYAL - ECHANGALIN MUDIBU, VETTRUMAITHOGAI,
10	4	POTHUVIYAL -UVAMAI VURUBUGAL
11	4	POTHUVIYAL - THOGAINILAI , THOGANILAI THODERGAL
12	5	POTHUVIYAL - VAZHUVAMAITHI , AARUVAGAI VINAA
13	5	VUREEYAYAL - UYIRPPORUL -UYIRILLATHAPPORUL , ORUGUNAM THAZHUVIYA VURESOL
14	5	VUREEYAYAL - PALAGUNAM THAZHUVIYA VURESOL
15	5	VUREEYAYAL - PURANADAI

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### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>TA101A : IKKALA ILAKKIYAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Marabu Kavithi Puthukavithai Thotramum Valarchiyum-Bharathiyar-Puthumai pen.
2	1	Bharathiyar Kannan pattu:-Suttum vizhi sudarthaan kanamma.
3	1	Bharathiyar Kannan pattu:Kannan en Sevagan.
4	1	Arivumathi-Natpu Kalam.
5	2	Urainadai Thotramum Valarchiyum,u vee sa Taml pani.
6	2	Urainadai-Uthirntham malargal.
7	3	Sirukathai Thotramum Valarchiyum-Jayakanthan,Akkini Pravesam Sirukathai.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sirukathai-Gurupeedam,Ciluvai.
9	4	Navalin .Thotramum Valarchiyum.
10	4	.Sa,Kandasamy Tamil pani.
11	4	Naval-Karupin kural.page:1-30.
12	4	Naval-Karupin kural.page:31-60.
13	4	Naval-Karupin kural.page:61-90.
14	4	Naval-Karupin kural.page:91-120.
15	4	.Naval-Karupin kural.page:121-144.

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### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>TA203A : SITRILAKKIYAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sittrilakkiyangal thotram valarchinilai
2	1	Thirukkavalur kalambaka nool, Veerama munivar varalaru
3	1	Thirukkavalur kalambakam - Uusal 1-7
4	1	Thirukkavalur kalambakam - Uusal 8-14
5	1	Thirukkavalur kalambakam - Uusal15-21
6	3	Thirukutrala kuravanchi nool, thirikuda rasappa kavirayar varalaru
7	3	Thiru kutrala kuravanchi malaivalam 1-3



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thiru kutrala kuravanchi malaivalam 4-6
9	4	Sakalakala valli malaiyin sirappukal
10	4	Kumara kuruparar varalaru
11	4	Sakalakala valli malai padal 1, 2
12	4	Sakalakala valli malai padal-3,4
13	4	Sakalakala valli malai padal-5,6
14	4	Sakalakala valli malai padal-7,8
15	4	Sakalakala valli malai padal-9,10

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### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
7	3	I CIA EXAMINATIONS
1	1	Triphthongs Making Requests Thanking Responding to Someone How to be a Doctor
2	1	Precise Writing Non Finite verbs Strong and weak verbs The Auxiliaries
14	5	II CIA EXAMINATIONS
15	5	Revision
3	2	Transcription Inviting and accepting invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Article

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	The Relationship between spelling and sound Paying Compliments
8	4	Sentence Transcription Describing Daily Routines
6	3	Asking Permission My Visions for India
9	4	If - Poem The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for directions and giving directions
12	5	Kiran Bedi
13	5	Use of wrong tenses Use of prefixes and suffixes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTURI KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	LISTENING SPEECH SOUNDS- CONSONANTS SPEAKING MEETING PEOPLE, EXCHANGING GREETINGS & TAKING LEAVE INTRODUCING PEOPLE TO OTHERS
2	1	READING FORGETTING- ROBERT LYND
3	1	WRITING PARTS OF SPEECH INFORMAL LETTERS THE SENTENCE
4	2	LISTENING SPEECH SOUNDS-VOWELS SPEAKING GIVING PERSONAL INFORMATION TALKING ABOUT PEOPLE READING POEM-MENDING WALL-ROBERT FROST
5	2	LETTER WRITING- FORMAL LETTERS NOUNS-GENDER, CASES, NUMBER & CLASSES ADJECTIVES COMPARISON OF ADJECTIVES
6	3	LISTENING DIPHTHONGS SPEAKING TAKING AND LEAVING MESSAGES MAKING ENQUIRIERS ON THE PHONE
7	3	READING POEM-TIME AND LOVE-SHAKESPEARE WRITING DIALOGUE WRITING ARTICLES PRONOUNS AND ITS TYPES

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	I -CIA
14	5	II-CIA
9	4	LISTENING PHONETIC TRANSCRIPTION SPEAKING ANSWERING THE TELEPHONE AND ASKING FOR SOMEONE
10	4	READING PROSE-MOTHER TERESA- JOHN FRASER ONE ACT PLAY- BEST LAID PLANS-FARRELL MITCHELL
11	4	WRITING READING COMPREHENSION VERBS- TRANSITIVE AND INTRANSITIVE VERBS-ACTIVE AND PASSIVE
12	5	LISTENING VOICED AND VOICELESS SOUNDS SPEAKING DEALING WITH A WRONG NUMBER
13	5	READING SHORT STORY-THE SELFISH GIANT-OSCAR WILDE WRITING VERBS-MOOD AND TENSE CONCORD OR AGREEMENT OF THE VERB WITH THE SUBJECT
15	5	REVISION OF ALL THE TOPICS DISCUSSED

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthava Kap[iyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Etuthokai
2	2	Purnanauru Agananuru
3	3	Kurunthokai Natrinai
4	4	Aingurunuru Kalithokai
5	5	Paripaadal
6	6	Keezhkanaku Noolgalil Needhi Noolgal
7	7	Virundhombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Kalamai Kuriparidhal
9	9	Pathupaatu
10	10	Sirupaanatrupadai
11	11	Mullaipaatu
12	12	Madhuraikaanji
13	13	Patinapaalai
14	14	Patinapaalai
15	15	Pathirikaigalil Seidhi Varaidhal Suruki Varaidhal Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>3</b>
Subject	<b>19TA305 : SIDHAR ILLAKIYAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1 SITHTHARGAL ARIMUGAM 1.2 PEYAR KAARANAM 1.3 PATHINEN SITHTHARGAL
2	1	1.4 SITHTHARGALIN IRAI KOLGAIGAL
3	1	1.5 SITHTHAR UDARPATRIYA KOLGAIGAL
4	1	1.6 SITHTHAR ARULIYA MARUTHUVAM
5	2	2.1 SIVAVAAKIYAR VARALARU
6	2	2.2 VALLAVAASAL ONPATHU
7	2	2.3 PATINATTHAAR VARALARU

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.4 PATINATHTHAR NENJODU MAGIZHTHAL 3.1 PAATHIRAGIYAAR VARALARU
9	3	3.2 PATHIRAGIRIYAR MEY NYANA PULAMBAL
10	3	3.3 PAAMPAATI SITHTHAR 3.4 PAAMPAATTTI AGAPPATRU NEEKAL
11	4	4.1 IDAI KAATU SITHTHAR VARALARU
12	4	4.2 13- KANNI MUTHAL 22 VARAI
13	4	4.3 KUTHAMBAI SITHTHAR VARALARU
14	5	5.1 AGAP PEI SITHTHAR VARALARU 5.2 NANCHUNNA.....PADAL MUTHAL (1-10)
15	5	5.3 KADUVELI SITHTHAR 5.4 'VAITHAARAI KOODA VAIYATHEY' (1-10) (26-35) VARAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Tamil	Semester	3
Subject	19TA306 : YAPARUNGALAKARIGAI	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VURUPIYAL - YEZHUTHTHU
2	1	VURUPIYAL - ASAI
3	1	VURUPIYAL - SEER
4	2	VURUPIYAL - THALAI
5	2	VURUPIYAL - ADI
6	2	VURUPIYAL - THODAI
7	3	SEYULIYAL - VANBA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	SEYULIYAL - VENBA SEYULIYAL - AASIRIYAPPA
9	3	SEYULIYAL - AASIRIYAPPA
10	4	SEYULIYAL - KALIPPA
11	4	SEYULIYAL - KALIPPA
12	4	SEYULIYAL - KALIPPA
13	5	SEYULIYAL - VANCHIPPA
14	5	SEYULIYAL - VANCHIPPA SEYULIYAL - MARUTPA
15	5	SEYULIYAL - MARUTPA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettu thokai noolkal
2	1	Purananuru - 184, 204 ; Akananuru - 219, 351
3	1	Kunthogai - 20, 210; Natrinai - 21, 86
4	1	Ienkurunuru - Annaye pathu 1-5, Kalithogai - Kurinchikali 5
5	1	Paripadal - Vaiyai patham padal 71-131
6	4	Keezhkanakku noolkalil neethi noolkal
7	3	Thirukkural - Virunthombal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Kallamai, Kuripparithal
9	4	Pathupattu noolgal
10	2	Sirupanatrupatai 111-145, 235-261
11	2	Mullai pattu 26-79
12	2	Madurai kanchi 238-270
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhithiran - pathirikaigalukku seithi varaithal, Surukki varaithal, Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock Interviews/Actual Interviews Facing and Interview Tele-Interviews
2	1	Julius Caesar The Count of Monte Cristo Description
3	2	Words often used Seminar Skills Macbeth
4	2	The Count of Monte Cristo Idioms and Phrases
5	3	Homonyms and Similar Sounds Tele-Conferences Handling Customers or Clients Receiving Visitors Henry IV
6	3	Henry IV The Count of Monte Cristo The use of Graphics
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making Small Talk and Telling Stories
9	4	Patterns of Love - As You Like It The Count of Monte Cristo
10	4	The Count of Monte Cristo Negotiations
11	5	Group Discussions Making Appointments Cancelling and Rescheduling Appointments
12	5	Hamlet The Count of Monte Cristo
13	5	The Count of Monte Cristo Writing Review of Books
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>4</b>
Subject	<b>NENSS401 : SOFT SKILLS</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Learning Skills Interview Skills
2	1	Interview Skills Adaptability Skills
3	2	Non-verbal Communication Skills Written Communication Skills
4	2	Barriers to Communication
5	3	Emotional Intelligence Skills Stress Management and Time Management Skills
6	3	Stress Management and Time Management Skills Problem-solving Skills
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Effective Teamwork Skills
9	4	Leadership, Assertiveness and Negotiation Skills
10	4	Teaching Personality Development
11	5	Formation of Attitude
12	5	Functions of Attitude
13	5	Components of Attitude: Emotional, Behavioral, Cognitive
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>3</b>
Subject	<b>EVST301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization,
2	1	floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources:
3	1	energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem,
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act –
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Narration Welcoming the gathering
2	1	Introduction a guest to the audience Thanking the gathering & organization
3	1	One act play Refund - Fritz karinthy
4	2	Quit india movement
5	2	Tryst with destiny -jawarhalal Nehru
6	2	One Act play The Bear - Anton Chekhov
7	2	Spotting error



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Gettysburg address - Abraham Lincoln
9	3	I have dream - Martin Luther King
10	4	The hour of truth
11	4	Email writing Inaugural address Prepared to die
12	4	Presentation skills
13	4	Auto biography sorrows of childhood Resume Writing
14	5	Some useful expresion Speech writing
15	5	Marie Curie - biography Sarojini naidu-biography Minutes of writing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Tamil	Semester	6
Subject	19JTA601 : PROJECT	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aaivu Munmoizhivu - Arimugam
2	1	Aaivu Munmoizhivu - Arimugam
3	1	aaivim Prathana Moolakoorugal
4	1	aaivim Prathana Moolakoorugal
5	2	aaivin Nokam
6	4	aaivin Nokam
7	2	Aaivu Vadivamaipu

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Aaivin Adipadai Narigal
9	4	Karuthugol, Karuthugol vagaigal
10	4	Kala aaivu violakam
11	5	Aaivin Noku
12	5	Aaivu Thitamidal
13	5	Aaivu Kalath Thoderbu
14	5	Aaivu Kala aaivu muraigal
15	5	aaivu narkanal Uthigal, Kala aaivu aram

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>6</b>
Subject	<b>19JTA601 : PROJECT</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Aaivu Munmozhivu - Arimugam
2	1	Aaivu Munmozhivu - Arimugam
3	1	Aaivin Pradhana Moolakoorugal
4	1	Aaivin Pradhana Moolakoorugal
5	2	Aaivin Nokam
6	2	Aaivin Nokam
7	2	Aaivu Vadivamaipu

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	aaivin Adipadai Narigal
9	4	Karuthukol , Karuthukol Palavagai Pagupadu
10	4	Kala Aaivu Vilakam
11	5	aaivu Noku
12	5	Aaivu Thitamidal
13	5	Aaivu Kalathoderbugal
14	5	Aaivu Kala Aaivu Muraigal
15	5	Aaivu Naarkanal Uthigal, Kala Aaivu Aram

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHNBOSCO A Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>6</b>
Subject	<b>TA615A : SANGA ILAKKIAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Narrinai-21,25,28
2	1	Narrinai-21,252,06-30-54
3	1	Kurunthogai 7,10,
4	1	Kurunthogai 40,51,110
5	2	Ayinguru Nooru -Annaai Vaazhi Paththu -
7	2	Kaliththogai -Mullaikkali
8	2	Aganaanooru-ManimidaippaPalamam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
14	5	Perumbanarruppadai-441-480
15	5	Kurinji pattu 101-261
9	2	Puranaanooru --212,214
10	3	Puranaanooru -,215,216,221
11	3	Pathirruppaththu 2m Paththu 1st 5 Songs
12	3	Paripadal -10th Padal-Vaiyai-1 to 70
13	4	Porunararruppadai-129-190
6	2	Ayinguru Nooru -Annaai Vaazhi Paththu 6-10

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>5</b>
Subject	<b>19TA511 : KALVETYALIM SUVADIYALUM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	5	Kalvettu thotramum valarchium Amaippu
2	5	Meykeerthigal Nadukarkkal
3	5	Kalvettin vahaigal Kalvettum arasargalum
4	5	Seppedugal
5	1	Suvadiyal vilakkam Sorporul vilakkam Suvadi payirchiyin inriyamayamai
6	1	Suvadigalin thotramum valarchium Suvadigalai pathukathel muraigal
7	1	Suvadigali Pathippithal muraigal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Suvadigalin amaippu Suvadigalin vahaigal
9	2	Suvadigalin ezhuthu muraigal
10	3	Ezhuthugalin varivadivam Uirmey ezhuthugalin varivadivam
11	3	Suvadigali pathukathel
12	3	Suvadigalai thirattuthal
13	4	Suvadigalin moolapadam Naday aayvu
14	4	Pady eduthal Oppeedu
15	4	Meetuuvakkam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>5</b>
Subject	<b>19ETA513 : THAGAVAL THODARBIYAL</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Thagaval - vilakkam Adippadai vilaiivugal
2	1	Clu murai thagaval thodarbugal Sathanangalin panigal
3	1	Thadaigal Thagaval solbavar perubavar thaguthigal
4	2	Karuthakkath thalaivargal
5	2	Urupadivangal India mozhy ithazhgal
6	2	Ithazhiyal sattangal Nalithazhgal uruvathel
7	3	Sarbuth thanmayum ethirputh thanmayum

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thappum thavarum Puthu sollakkam
9	4	Vanoli thotramum valarchium Pannattu oliparappu
10	4	Kalvi oliparappu Grama oliparappu
11	4	Pechu uraigal Vanoli thannatcji Vanoli inndru
12	4	Tholaik katch thotramum valarchium Kalvi oliparappu Vilambarangal, thodergal
13	5	Thirap padam thotramum valarchium Kalvi oliparappu Thodargal
14	5	Kuzhenthayar padangal Thesiya thiraiada membattu niruvanam
15	5	Vilambarangal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>6</b>
Subject	<b>19TA616 : TAMIL MOZHI VARALARU</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mozhi amaippum varalarum
2	1	Mozhi varaltru sanrugal
3	1	Thol dhravida mozhiyum thamizhum
4	2	Thamizh prami kalvettukkalin mozhi Tholkappiya thamizh
5	2	Tholkappiya thamizh
6	2	Sanga hala thamizh Sangam maruviya kala thamizh
7	3	Pallavar kala thamizh

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sozhar kala thamizh
9	4	Nayakker kala thamizh
10	4	Marattiyar kala thamizh
11	4	19,20 Nootrandu thamizh
12	4	Kalvettu thamizh
13	5	Thamizhil pira mozhi kalappu
14	5	Thamizhin kilai mozhighalum varalarum Thamizh varivadiva varalaru
15	5	Thamizh sotroder amaippum varalarum

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>5</b>
Subject	<b>19ETA512 : NAATUPURAVIYAL</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Nattupuraviyal,Nattupura padalgal.
2	1	Nattupura kathaigal,Nattupura kathai padalgal.
3	1	Pazamozigl,Vidukathaigal.
4	2	Purana kathaigal,Nattupura kalaigalum kaivinai porutkalum.
5	2	Nattupura Nambikkaigal,Nattupura deivangal.
6	3	Nattupura thiruvizhakkal,Nattupura vilaiyattukal
7	3	Nattupura Maruththuvam,Nattupura kattidakalai.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Nattupura thozhilnutpaviyal.
9	4	Panpattu Nattupuraviyal,Makkal peyarrayvu.
10	4	Oor peyarrayvu,Kalaayvu.
11	4	Nattupura Ilakkiyamum Azuth Ilakkiyamum.
12	5	Nattupuraviyal palligal,Nattupuraviyal Ayvukotpadugal.
13	5	Nattupuraviyalum pira Iyal.
14	5	Nattupura Iyallin Varalaru.
15	5	India Nattupura Iyallin Varalaru,TamizhagaNattupura Iyallin Varalaru.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>6</b>
Subject	<b>19ETA617 : PADAIPPILAKKIYAM</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Padaipilakkiyam - Verpadu - Padaipunarvu - Karanam
2	1	Padaupilakkiyathin payan - Uokkam
3	1	Padaipilakkiya vithigal
4	2	Marapu kavithai - Kavithai suvaikal
5	2	Yappin uruppukal
6	2	Pa Vagaiyum Enamum
7	3	Thamizhil pudu kavithai eyakkangal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pudukavithai Uruva Amaippukal, kavithaikkana pothu payerchikal
9	4	Sirukathai - Kathaikaru, Kathai pinnal
10	4	Sirukathai uthigal
11	4	Sirukathai uruvakkam
12	4	Sirukathai thitta varaivu
13	5	Oranga nadagam - Naval sirukathai nadagam verupadu - nadagathin varalaru
14	5	Oranga nadaga valarchi
15	5	Oranga nadaga amaippu

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>5</b>
Subject	<b>19TA509 : NAMBIAGAPORUL</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Agathinai Iyal - Karuporul, Uriporul
2	1	Agathinai Iyal - Kaikol ,-Punarchi
3	1	Agathinai Iyal-Arathodu Nitral Vakaigal-Pirivin Vagaigal
4	1	Agathinai Iyal-Celavazhungal,Paanar
5	4	Varaiviyal-Variviyal Vilakkam,Ilakkanam,Varaivu Malithal
6	4	Varaiviyal-Thanmanai Varaithal,Udan pokku Idaiyeedu
7	2	Kalaviyal-Kalavin Iyalbu -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
13	5	Karpiyal-Karpirkku Uriya Kilaviththogai
14	5	Karpiyal-Udal Vagaigal
15	5	Karpiyal-Oothal Muthaliya Aivagaip Pirivugal
10	3	Kalaviyal-Pangiyir Koottaththin Vagaigal
11	3	Kalaviyal-Varaivu Kadathalin Vagaigal
12	3	Kalaviyal-Oru Vazhi Thanaththalin Vagaigal
8	2	Kalaviyal-Kalavirkku Uriya Kilavith thogaigal
9	2	Kalaviyal-Pangi Mathi Udanpadu

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>6</b>
Subject	<b>19TA614 : PURAPORUL VENBAMALAI</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Vetchi Padalam
2	1	Vetchi Padalam
3	1	Karanthai Padalam
4	2	Vanchi Padalam
5	2	Vanchi Padalam
6	2	Kanchi Padalam
7	3	Notchi Padalam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Uzhinai Padalam
9	3	Uzhinai Padalm
10	4	Thumpai Padalam
11	4	Tumpai Padalam
12	4	Vagaip Padalam
13	5	Paadaan Padalam
14	5	Pothuviyal Padalam
15	5	Pothuviyal Padalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>6</b>
Subject	<b>19JTA601 : PROJECT</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Research - Introduction
2	1	Aaivvu Sikkal
3	1	Aivyguriya Kalam
4	2	Aivu Paguppum Thoguppum - Muthanmai Goorugal
5	2	Aivu Paguppum Thoguppum - Thunainilai Goorugal
6	2	Aivu Paguppum Thoguppum - kalaaivvu vagaigal
7	3	Aaivu Anugumuraigalin vagaigal - part- 1

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Aaivu Anugumuraigalin vagaigal - part -2
9	3	Aaivu Anugumuraigalin vagaigal - part-3
10	4	Aivettin Uvruvaakam
11	4	Aivettin Uvruvaakam palveru nilaigal
12	4	Aaivettin Amaippu
13	5	Vilakkapadangal
14	5	Pinninaippu
15	5	Aaivettin Kaatamaippu

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>17ABE11 : APPLICATION OF ECONOMICS IN BUSINESS</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Economics-Definitions of Economics –Scope
2	1	Positive and Normative Economics-Economics and Business
3	2	Demand and Supply Analysis-Law of Demand –Factors Influencing Demand –Law of Supply –Factors determining supply
4	2	Elasticity of Demand –Types-Price Elasticity –Income Elasticity–Cross Elasticity
5	2	Demand Forecasting-Meaning-Definition-Forecasting demand for New products.
6	5	Business cycles -Meaning– Definition -Characteristics
7	5	Phases of Business Cycle- Theories of Business cycle



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Schumpeter's Innovation theory-Sun spot theory-Control of business cycle.
10	3	Meaning of Cost –Cost Concepts-Short Run Cost curves- Marginal Cost, Average Cost, Total Cost, Fixed Cost, and Variable Cost
11	3	Opportunity cost-Relationship between Average cost & Marginal cost-Long Run Average Cost Curve-Concepts of Revenue-Average Revenue-Marginal Revenue
12	4	Production Function –Laws of Production–The Law of Returns to Scale
13	4	Economies and Diseconomies of scale-Market Morphology- Introduction of Types of market
14	4	Pricing in imperfect competition-
9	2	REVISION
15	3	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>BBP201A : MS OFFICE LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Create a word document and apply different formatting options.
2	1	Create your bio-data and use page borders and shading
3	1	Design a greeting card using Word Art for different festivals.
4	2	Create a power point presentation with minimum 5 slides and apply formatting text, shapes and images.
5	2	Create a power point presentation with minimum 5 slides and apply formatting text, shapes and images.
6	2	Create a power point presentation with minimum 10 slides and apply transitions and animations.
7	3	Create a worksheet and apply sorting and filtering options.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create a worksheet and apply sorting and filtering options.
9	3	Create a worksheet and apply sorting and filtering options.
10	4	Create a worksheet and apply lookup and references.
11	4	Create a worksheet and apply different logical functions.
12	4	Create a worksheet and insert chart and tables.
13	5	Create a worksheet to work with date and time functions.
14	5	Create a worksheet to work with date and time functions.
15	5	Create a worksheet to work with date and time functions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHNBOSCO A Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANIN -KODUGAL ILLA VARAIPADAM
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bharathiyar
2	1	Bharathi dhasan
3	1	Erodu Thamizhanban
4	1	Arivumathi Suratha
5	4	Thiru.. V. Ka
6	4	Thiru. V.ka
7	4	Kodugal illatha varai padam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Nadayal vendra ulagan
9	5	Thamil ilakkanam
10	2	Silappathiharam
11	2	Mani megalai
12	2	Seevaga sinthamani
13	2	Appar Vallalar Kutrala kuravanji
14	3	Kalanum kizhaviyum Sumai thangi
15	3	Nagaram

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>19BB102 : FUNDAMENTALS OF INFORMATION TECHNOLOGY</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Data Storage - Introduction-Storage Cell-
2	2	Physical Device used as Storage Cells
3	2	Random Access Memory
4	2	Read Only Memory-Secondary Storage.
5	2	CDROM-Archival store.
6	3	Embedded Processors.
7	3	Interconnections of CPU with memory and I/O Unit



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Computer Networks - Introduction- Local Area Network
9	4	Applications of LAN-Wide Area Network-
10	4	Internet-Naming Computers Connected to Internet
11	4	Future of Internet Technology.
12	5	Output Devices - Introduction-Video display Devices
13	5	Touch Screen Display-E-Ink Display-Printers-Audio Output.
14	5	Computer Software - Introduction-Operating system-Programming Languages-Classification of Programming Languages.
15	5	Classification of Programming Languages based on applications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>BB204A : FUNDAMENTALS OF MS OFFICE</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Microsoft Office: Overview of the Office components(Word,Excel,PowerPoint,Access)
2	1	Identifying Common Screen Elements – Exiting a Program. Common Office Tools and Techniques: Switching
3	1	Sizing and Arranging Windows – Working with Menus – Working with Dialog Boxes –
4	1	Working with Toolbars Using the Clipboard to cut, copy and paste.
5	2	Starting Word:Starting a New Document – Opening an Existing File – Saving a Document
6	2	Printing a Document – Closing a Document. Word Basics :- Typing Text – Inserting, Selecting and Deleting Text
7	2	Using Undo and Redo – Inserting Special Characters or symbols – Formatting Characters (Changing Fonts and Font Sizes, Applying Bold, Italic or Underline, Changing Text Case – Drop Caps)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Margins & Gutters - Working with Bulleted or Numbered Lists – Aligning Text – Borders and Shading - Formatting Paragraphs – Line Spacing
9	3	Working with AutoCorrect and AutoFormat: Using Find and Replace – Correcting Spelling and Grammatical Errors
10	3	Working with Headers and Footers – Working with Tabs - Working with Tables.
11	3	Working with Graphics:Importing Graphics – ClipArt Gallery – Drawing Objects.
12	4	Using Excel: Creating s Simple Spreadsheet – Editing a Spreadsheet– Working with Functions and Formulas
13	4	Formatting Worksheets – Creating Charts.
14	5	Using PowerPoint:Creating& Viewing Presentations-Editing a Presentation
15	5	Working with Presentation Special Effects.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>BBP201A : MS OFFICE LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Microsoft Office: Overview of the Office components(Word,Excel,PowerPoint,Access)
2	1	Identifying Common Screen Elements – Exiting a Program. Common Office Tools and Techniques Switching from one application to another – Sizing and Arranging Windows – Working with Menus
3	1	Working with Dialog Boxes – Working with Toolbars-Using the Clipboard to cut, copy and paste.
4	2	Starting Word:Starting a New Document – Opening an Existing File – Saving a Document-Printing a Document – Closing a Document.
5	2	Word Basics :-Typing Text– Inserting, Selecting and Deleting Text – Using Undo and Redo – Inserting Special Characters or symbols -Formatting Characters (Changing Fonts and Font Sizes, Applying Bold, Italic or Underline, Changing Text Case
6	2	Drop Caps) – Margins & Gutters - Working with Bulleted or Numbered Lists – Aligning Text – Borders and Shading - Formatting Paragraphs – Line Spacing
7	3	Working with AutoCorrect and AutoFormat: Using Find and Replace – Correcting Spelling and Grammatical Errors

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Working with Headers and Footers – Working with Tabs - Working with Tables.
9	3	Working with Graphics:Importing Graphics – ClipArt Gallery – Drawing Objects.
10	4	Using Excel: Creating s Simple Spreadsheet
11	4	Editing a Spreadsheet – Working with Functions and Formulas
12	4	Formatting Worksheets – Creating Charts.
13	5	Using PowerPoint:Creating& Viewing Presentations
14	5	Editing a Presentation
15	5	Working with Presentation Special Effects.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI NOOLGALIL..., PURANANOORU 50, 182 AAGANANOORU 105, 154
2	1	KURUNTHOGAI 25, 135 NATTRENAI 01, 172
3	1	KALITHOGAIYIL 111, 133
4	3	THIRUKKURALIL...,3 ATHIGARANGAL 30 KURATPAAKKAL 1.KOODA OZHUKKAM 2.AAVAIYARETHAL PAZHAIMAI
5	3	THIRUKKURALIL... ..PAZHAIMAI
6	4	ILLAKKIYA VARALARU ETTUTHOGAI NOOLGAL
7	4	ILLAKKIYA VARALARU PATHINEN KEZHKKANAKKIL NEETHI NOOLGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPAATTU NOOLGALIL NEDUNELVAADAI 1-63 VAREGAL
9	2	PORUNERRATTRUPPADAI 42-78 VAREGAL
10	2	MULLAIPPAATTU 24-79 VAREGAL
11	2	MADURAIKKAANCHI 500-526 VAREGAL
12	4	ILLAKKIYA VARALARU PATHUPPAATTU NOOLGAL
13	5	MOZHITHIRAN KADETHAM VARAITHAL
14	5	NEER KAANEL PAYIRCHI
15	5	PANBALAI VAANOLI NIGAZHCHI THOGUPPU

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthokai
2	1	Purananuru - 50, 182 Akananuru - 105, 154
3	1	Kunthokai - 25, 53 Natrinai - 01, 172
4	1	Kalithokai - 111, 133
5	4	Pathnen kezhkanakkil neethi noolgal 1-5
6	4	Pathnen kezhkanakkil neethi noolgal 6-11
7	3	Thirukkural - Kooda Ozhukkam, Pazhaimai



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Avaiyarithal
9	4	Pathupattu noolgal 1-5
10	4	Parhupattu noolgal 6-10
11	2	Nedunal vadai 1-63
12	2	Porunar Aatru padai 42-78
13	2	Mullai pattu 24-79
14	2	Madurai Kanchi 500-526
15	5	Mozgithiran - Kadithangal, Nerkanal, Panpalai vanoli nigazhchi thoguppu, Vadikkaiyalar sevai maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. E. Arokiadoss</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>PECM02A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Grammar
2	1	Tense
3	1	Seminars
4	1	Reading skills
5	1	Use of wrong tenses
6	2	Paragraph writing
7	2	Triphthongs

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Homophones
9	2	Letter writing
10	2	Strong and weak verbs
11	3	The Auxiliaries
12	3	Note-making
13	3	Types of Interview
14	3	Conversation
15	3	Speaking skill

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>21ABS22 : BUSINESS STATISTICAL METHODS</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Collection of data – Primary data and Secondary data -Different methods of collecting primary data – Classification and Tabulation of Statistical data.
2	1	Measures of Central value: Arithmetic Mean, Median, Mode.
3	1	Measures of Central value: Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation.
5	2	Measures of Dispersion: Standard Deviation-Combined standard deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods.
7	3	Correlation: Karl Pearson's coefficient of correlation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient. Ranks are given, Ranks are not Given, Ranks are Repeated.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers –
11	4	Methods of Constructing Index Numbers – Simple Aggregative Method
12	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method.
13	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly).
14	5	Least Square Method (Fitting of straight line).
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method – Link Relative Method.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>21BB101 : BUSINESS ORGANIZATION AND MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Business - Business - Meaning – Definition - Characteristics - Objectives - Criteria for success in Modern
2	1	Business- Classification of Business. Meaning and Evolution of Commerce & Industry - Industrial Revolution- Its Effects.
3	1	Liberalization, Privatization & Globalization (LPG) - Emergence of Indian MNCs & Transnational Corporations- Advantages and Disadvantages of MNC's.
4	2	Forms of Business Organization - Sole Tradership –Partnership – Public Private Partnership (PPP) definition, Characteristics, relative advantages and limitations.
5	2	Limited Liability Partnership (LLP) -Cooperative Societies - Joint Stock Company Definition, Characteristics, relative advantages and limitations.
6	2	Public Utilities and Public Enterprises - Definition, Characteristics, relative advantages and limitations.
7	3	Introduction to Management - Management- Definition- Functions of Management- Management and Administration-Art or Science



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Functions of Management- Management and Administration-Art or Science
9	3	Henry Fayol's Principles of Management – F.W. Taylor's Scientific Management
10	4	Planning and Organizing - Planning - importance - Process of planning - types of planning - planning methods (Objectives- Policies- Procedures - Strategies & Programmes ) –Barriers for effective planning -
11	4	Decision making - steps in decision making process – Type of decisions MBO - Organization - Importance
12	4	Principles of Organizing - Organizational structure type of organization structure - Delegation and Decentralization – Departmentation Span of Management
13	5	Directing, Co-Ordination and Control Directing –Meaning- Importance- principle. Leadership-Definition - Qualities of a leader Styles of leadership.
14	5	Communication - Definition – Process of communication - Barriers to effective communication - Nature of Co -ordination - Problems of effective coordination.
15	5	Control - Nature – control process - control techniques (traditional and non-traditional).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19BP402 : RDBMS - LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DML, DDL, DCL commands.
2	1	Simple Queries using DML, DDL, DCL commands
3	1	Writing Queries using Operators
4	2	Built-In SQL functions.
5	2	Built-In SQL functions.
6	2	Generating Reports using SQL*PLUS Commands.
7	3	Generating Reports using SQL*PLUS Commands.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Working with Constraints.
9	3	Working with Constraints.
10	4	Creating VIEWS.
11	4	Creating VIEWS.
12	4	SUB-QUERIS.
13	5	SUB-QUERIS.
14	5	JOINS
15	5	JOINS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams .
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity .
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession.
5	2	Food chains, food webs and ecological pyramids – types, characteristics, structure and function .
6	2	Forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	Solid waste management: causes, effects, control measures and disposal of wastes
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion .
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19BB402 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - Relational Database - Using SQL*plus - Understanding the Common Oracle Data types -Structured Query Language(SQL):
2	1	Data Query Language (DQL) Statements-Data Manipulation Language(DML)Statements-Data Definition Language(DDL) Statements-
3	1	Data Transaction Language(DTL)Statements-Data Control Language(DCL)statements-Filtering and Ordering rows.
4	2	Overview of Operators and Functions: Comparison or Relational operators-Arithmetic operators-Logical operators-Special operators-
5	2	String operators-SET operators Built-in SQL functions: Character functions-Numeric functions-Date functions-
6	2	Conversion functions-Aggregate functions-using Grouping rows and filter Group of Rows.
7	3	SQL*Plus Reports and Commands - Viewing the Structure of a table-Editing SQL statements-Saving,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Retrieving and Running Files-Formatting Columns-Setting the Page Size-
9	3	Setting the Line Size-Clear Column Formatting-Using Variables-Creating Simple Reports.
10	4	Database Integrity - Primary key-Unique-Not null-Check-Foreign key.
11	4	Database Security-Users-Grant and Revoke-System privileges-Object privileges-
12	4	Synonyms- Roles, Creating table from another table- Sequences-Indexes-Views.
13	5	SUBQUERIES - Single Row sub queries-Multiple Row sub queries-
14	5	Multiple Column sub queries-Inline sub queries-Scalar sub queries-Nested Sub queries.
15	5	JOINS - Cartesian products-Equi joins-Non-equi joins-Outer joins-Self joins.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19GBB42 : ORGANIZATIONAL BEHAVIOUR</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Organizational behavior(OB)–Features–Scope–
2	1	Fundamental Concepts of OB–Challenges and Career Development for OB– Contributing disciplines to the OB.
3	2	Individual Behavior – Personality Determinants – Big five Personality factors – Learning Theories. The Perpetual Process –
4	2	Factors influencing perception – Internal & External Attitudes and Behavior–Attitude Formation and Attitude Change.
5	2	Group Behavior – Fundamentals of Groups – Stages of Development –
6	2	Important Factors influencing Team Effectiveness– Cohesiveness–Norms–Decision Making.
7	3	Motivation–Motivational Processes–Theories of Motivation (Maslow,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Herzberg, Mc Clelland and Vroom) – Learning and Reinforcement Theory. Morale – Factors influencing Morale.
9	3	Revision
10	4	Power and Politics: Power bases – dependency – Individual versus Organizational Power – Political process in Organization –
11	4	factors contributing – techniques of organizational politics –
12	4	managing political behavior.
13	5	Organizational Culture – Concepts – Forming a Culture – Sustaining a Culture- Changing a Culture – Conflict – Transition in Conflict Thought –
14	5	Functional and Dysfunctional Conflict –Process of Conflict – Managing Conflict.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>3</b>
Subject	<b>19BB302 : MANAGEMENT INFORMATION SYSTEM</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to information systems(IS): why study IS- why business need information technology (IT)
2	1	Fundamentals of IS a concept – overview of IS
3	1	Solving business problems with IS – developing IS solutions.
4	2	Information systems for business operations: Business IS – marketing, manufacturing
5	2	Human resource, accounting and financial information systems – transaction processing System
6	2	Management information and decision support systems.
7	3	Managing information technology: Managing information resource and technologies

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	global IT management
9	3	planning and implementing business change with IT.
10	4	Enterprise Resource Planning (ERP): an overview – benefits of ERP
11	4	ERP and related technologies – business process reengineering – data warehousing
12	4	Data mining –online analytical processing – supply chain management
13	5	ERP implementation: ERP implementation life cycle – implementation methodology – hidden cost – organizing the implementation
14	5	Vendors, consultants and users contracts with vendors, consultants and employees project management and monitoring
15	5	ERP present and future – turbo change the ERP systems – enterprise integration applications – ERP and E-commerce – ERP and Internet

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19BP402 : RDBMS - LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DML, DDL, DCL commands.
2	1	Simple Queries using DML, DDL, DCL commands.
3	1	Simple Queries using DML, DDL, DCL commands.
4	2	Writing Queries using Operators.
5	2	Writing Queries using Operators.
6	2	Built-In SQL functions.
7	3	Built-In SQL functions.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Built-In SQL functions.
9	3	Generating Reports using SQL*PLUS Commands.
10	4	Working with Constraints.
11	4	Working with Constraints.
12	4	Creating VIEWS.
13	5	SUB-QUERIS.
14	5	SUB-QUERIS.
15	5	JOINS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>3</b>
Subject	<b>19BB301 : PRODUCTION MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Production Management – Scope and Significance –
2	1	Production System – Functions and Types- Factors influencing Plant Location
3	1	Plant Layout and its kinds.
4	2	Work Study – Time Study – Principles and factors
5	2	Motion Study –Work Measurement Principles and factors
6	2	Maintenance of Plant – Types.
7	3	Production Planning and Control – Definition – Objectives and Importance



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Elements of Production Planning
9	3	Routing and Scheduling
10	4	Quality Control and Inspection - Objectives and Significance
11	4	SQC
12	4	AGMARK, ISI and ISO Certification Marks.
13	5	Material Management – Objectives and importance
14	5	Purchasing Material – Procedure
15	5	Store Keeping –Objectives – Functions - JIT.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>3</b>
Subject	<b>GBB31A : ENGLISH FOR COMPETITIVE EXAMS</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	KNOWLEDGE PARTS OF SPEECH SENTENCE STRUCTURE
2	1	ANSWERING A PASSAGE
3	1	FILL IN THE BLANKS AMERICAN WORDS, GRAMMAR, HOMOPHONES
4	2	UNDERSTANDING ERROR SPOTTING
5	2	ODD ONE OUT PHRASE REPLACEMENT
6	2	SENTENCE CONNECTOR
7	3	SKILL ABILITY CLOZE TEST

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	SENTENCE REARRANGEMENT DOUBLE FILTERS
9	3	READING COMPREHENSION
10	4	WRITING WORD ASSOCIATION
11	4	ONE WORD SUBSTITUTION
12	4	WRITING SKILL WITH EXPRESSION
13	5	CREATIVE TECHNIQUE MULTIPLE MEANING
14	5	MISCELLANEOUS SENTENCE IMPROVEMENT
15	5	MOCK INTERVIEW

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems -Concept, structure and function of an ecosystem – producers, consumers and decomposes – energy flow.
5	2	Ecological succession – food chains, food webs and ecological pyramids – types.
6	2	Characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity.
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution.
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act.
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BBP601 : PROGRAMING USING MICROSOFT TECHNOLOGY (C#.NET) LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Factorial Number using methods.
2	1	Prime number using Interface.
3	1	Implement Arithmetic Manipulation using Namespace.
4	2	Create a simple Window Forms in c#.
5	2	Create a simple Window Forms in c#.
6	2	Create a simple Bio data.
7	3	Login Form Creation using MS Access

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Login Form Creation using MS Access
9	3	Login Form Creation using MS Access
10	4	Database Application to store phone numbers along with your name.
11	4	Database Application to store phone numbers along with your name.
12	4	Database Application to store phone numbers along with your name.
13	5	Database Application for Student mark list processing.
14	5	Database Application for Student mark list processing.
15	5	Database Application for Student mark list processing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>5</b>
Subject	<b>17EBB52A : INTERNET AND ITS APPLICATIONS</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic principlesinvolved in developing a web site - Planning process- Five Golden rules of web designing
2	1	Designing navigation bar - Page design - Home Page Layout - Design Concept.
3	1	Brief History of Internet -What is World Wide Web - Why create a web site - Web Standards.
4	2	What is HTML - HTML Documents - Basic structure of an HTML document
5	2	Creating an HTML document - Mark up Tags
6	2	Heading-Paragraphs - Line Breaks - HTML Tags
7	3	Text level tags: Bold - Italic - Underlined - Strike-through - superscript - subscript. Horizontal Rules



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Colors' in web page: Background color - Text color - Link color. Lists: Ordered Lists - Unordered Lists
9	3	Definition List - Nesting lists - Images: Image formats
10	4	Creating Tables - Editing of rows and columns of table
11	4	rows pan – colspan - formatting tables using attributes border
12	4	Border colour - back ground - align - width - cell spacing - cell height
13	5	Forms controls: text controls - Password fields - Radio Buttons
14	5	Check boxes - Reset and Submit buttons. Introduction to frames
15	5	Advantages and disadvantages of frames- creating basic frames Frame targeting.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BB602 : PROGRAMING USING MICROSOFT TECHNOLOGY (C#.NET)</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Dot Net, Introducing C# and its features
2	1	Variables, data types
3	1	Operators. in C#.net
4	2	Control Structures, Array
5	2	Classes, Methods, and Namespace
6	2	Interface, Simple example using Console Application.
7	3	Introduction to C# Window Forms

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Standard Controls: Label,Button
9	3	Textbox and Radio button
10	4	Picture Box, Timer Control
11	4	Richtext Box, Progress Bar
12	4	Datetime Picker, MenuStrip.
13	5	Introduction to ADO.Net Objects
14	5	Creating new data Connection, Accessing data using Connection class
15	5	Command Class and DataReader Class.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BBP601 : PROGRAMING USING MICROSOFT TECHNOLOGY (C#.NET) LAB</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Console Application sample program
2	1	simple Addation
3	1	Factorial Number using methods
4	2	program using method overloading
5	2	Implement Arithmetic Manipulation using Namespace
6	2	Prime number using Interface.
7	3	program using Switch statements

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Program using Looping
9	3	program using conditional statements
10	4	sample Windows Application
11	4	Create a simple Window Forms in c#.
12	4	Create a simple Bio data.
13	5	Login Form Creation using MS Access
14	5	Database Application to store phone numbers along with your name.
15	5	Database Application for Student mark list processing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BB601 : HUMAN RESOURCE MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human Resources Management – definition, meaning and function of HRM -
2	1	Qualities and roles of HR manager
3	1	Problems and challenges of a HR manager.
4	2	Human Resource Planning – definition – importance - HRP process -,
5	2	Job analysis – nature, process, concept of job design
6	2	Methods- techniques– Job description- Job specification
7	3	Recruitment and selection – meaning and definition, objectives - , methods

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Recruitment and selection -sources of recruitment, process
9	3	Recruitment practice in India- interviews
10	4	Training and Development Methods- Meaning – nature, principles, assessing the needs of training
11	4	Training and Development as source of competitive advantage
12	4	Training and Development methods of training, evaluation of effectiveness of training programme
13	5	Performance And Potential Appraisal - meaning, purpose-, problem
14	5	Performance And Potential Appraisal process - methods
15	5	Performance And Potential Appraisal - managing grievances and discipline.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>5</b>
Subject	<b>19EBB51A : INVESTMENT MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Investment Investment Meaning- Investment Vs. Speculation- Investment Vs Gambling
2	1	Important factors favorable for Investment Program
3	1	Stages in Investment - Investors Classification
4	2	Security Investment - Meaning- Bonds- Preference Shares- Equity shares
5	2	Derivatives- Options- Swaps- Futures
6	2	Mutual funds
7	3	Non Security Investment- Meaning- Government Securities- Life Insurance- UTI- Commercial banks



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Provident fund- Post office schemes
9	3	National Savings Schemes- Fixed Deposit Schemes
10	4	Risk and Return - Meaning- Historical and Expected return
11	4	Types of risk
12	4	Measurement of risk
13	5	Fundamental and Technical Analysis Meaning- Economy, Industry and Company Specific analysis
14	5	Tools for technical analysis- Charts
15	5	Support and Resistant level analysis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>17ABE11 : APPLICATION OF ECONOMICS IN BUSINESS</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Economics-Definitions of Economics –Scope
2	1	Positive and Normative Economics-Economics and Business
3	2	Demand and Supply Analysis-Law of Demand –Factors Influencing Demand –Law of Supply –Factors determining supply
4	2	Elasticity of Demand –Types-Price Elasticity –Income Elasticity–Cross Elasticity
5	2	Demand Forecasting-Meaning-Definition-Forecasting demand for New products.
6	5	Business cycles -Meaning– Definition -Characteristics
7	5	Phases of Business Cycle- Theories of Business cycle

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Schumpeter's Innovation theory-Sun spot theory-Control of business cycle.
10	3	Meaning of Cost –Cost Concepts-Short Run Cost curves- Marginal Cost, Average Cost, Total Cost, Fixed Cost, and Variable Cost
11	3	Opportunity cost-Relationship between Average cost & Marginal cost-Long Run Average Cost Curve-Concepts of Revenue-Average Revenue-Marginal Revenue
12	4	Production Function –Laws of Production–The Law of Returns to Scale
13	4	Economies and Diseconomies of scale-Market Morphology- Introduction of Types of market
14	4	Pricing in imperfect competition-
9	2	REVISION
15	3	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>BBP201A : MS OFFICE LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	MS Word Create a word document and apply different formatting options. Create your bio-data and use page borders and shading
2	2	Design a greeting card using Word Art for different festivals.
3	3	MS Power Point Create a power point presentation with minimum 5 slides and apply formatting text, shapes and images.
4	4	Create a power point presentation with minimum 10 slides and apply transitions and animations.
5	5	MS Excel Create a worksheet and apply sorting and filtering options.
6	5	Create a worksheet and apply lookup and references.
8	6	Create a worksheet and apply different logical functions.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	7	.Create a worksheet and insert chart and tables.
10	7	Create a worksheet and insert chart and tables.
11	7	Create a worksheet and insert chart and tables.
12	7	Create a worksheet and insert chart and tables.
13	8	Create a worksheet to work with date and time functions.
14	8	Create a worksheet to work with date and time functions.
15	8	Create a worksheet to work with date and time functions.
7	6	Create a worksheet and apply different logical functions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHNBOSCO A Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANIN -KODUGAL ILLA VARAIPADAM
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthogai noolgal
2	1	Pura nanooru 50,182
3	1	Aha nanooru 105,154
4	1	Kurunthogai 25,53
5	1	Natrinai 01,172
6	1	Kalithohai 111,133
7	3	Koodavozhukkam 1-10 Avayarithel 1-5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Avayarithel 6-10 Pazhimai 1-10
9	4	Pathnen keezh kanakkil neethi noolgal
10	4	Pathu pattu
11	2	Nedunal vadai
12	2	Porunaratrau padai
13	2	Mullai pattu 24-79
14	2	Mathurai kanji 500-526
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI C
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny by S. Radhakrishnan All the World's a Stage by William Shakespeare The Never Never Nest by Cedric Mount
2	2	Understanding Communication Greeting and Introducing Making Requests
3	2	Agreeing and Disagreeing Seeking and Giving Permission Persuading and Debating
4	2	Sounds and Symbols Word and Sentence Stress Effective use of Intonation
5	2	Telephone Manners in Business Situations Handling Customer Orders and Enquiries Handling Complaint Calls
6	5	Note-Making Report-Writing
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Gift of Magi by O Henry Mallala Yousafzai Pakistani Activist by Naomi Blumberg The Monkey's Paw by W. W. Jacob
9	4	Effective Listening Understanding the Audience
10	4	Perceptual Clarity Channel Awareness
11	4	Role of Non-verbal Communication Pragmatics
12	4	Handling Delivery and After-Sales Problems Taking Part in Teleconferences Tele-interviews
13	5	Publicity-literature
14	0	II CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to Instructions Pair work and small group work
2	1	Linking words Small group discussions
3	2	Skimming and Scanning Checking Facts and Opinions
4	2	Product Description
5	3	Listening to Lectures
6	3	Role Play
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening Comprehension One word Substitutes
9	4	Modals Definitions
10	5	Listening to interviews of specialists Negotiation and Mind mapping
11	5	The Merchant of Venice Note Making
12	5	Developing Story from Pictures Creative writing
13	5	Significance of Written communication in business
14	0	II CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Indian Women The Solitary Reaper The Purple Dress
2	2	Importance of Effective Communication in Business Contexts Face-to-Face Communication with Customers and Visitors Basic Skills for Talking to People in Transactional Situations
3	2	Receiving Visitors Booking Hotel Accommodation Making Small Talk and Telling Stories
4	2	Group Discussions Preparing for Interviews
5	2	Taking Interviews Promotion Interviews
6	5	Standard Business Letters Applying for Jobs, Preparing Resumes
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Give Us a Role Model Sowali Words of Inspiration
9	4	Preparing Agenda for Meetings Writing Minutes of Meetings Making Notes of Business Conversations
10	4	Making Business Presentations Business Promotions and Language for Advertising Negotiating
11	4	Communication Skills with Public, Fellow Employees, Supervisors and Customers Soft Skills for Team Building
12	4	Team Maintenance and Task Maintenance Roles Brainstorming and Consensus-Making Communication
13	4	Writing Cover Letters for Resumes
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>21ABS22 : BUSINESS STATISTICAL METHODS</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data – Primary data and Secondary data -Different methods of collecting primary data – Classification and Tabulation of Statistical data.
2	1	Measures of Central value: Arithmetic Mean, Median, Mode.
3	1	Measures of Central value: Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation.
5	2	Measures of Dispersion: Standard Deviation-Combined standard deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods.
7	3	Correlation: Karl Pearson's coefficient of correlation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient. Ranks are given, Ranks are not Given, Ranks are Repeated.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers –
11	4	Methods of Constructing Index Numbers – Simple Aggregative Method
12	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method.
13	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly).
14	5	Least Square Method (Fitting of straight line).
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method – Link Relative Method.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.M. MONIKA</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>2</b>
Subject	<b>BB203A : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Entrepreneurship: Meaning- Nature-Importance-Theories- Entrepreneur: Meaning-Definition-Characteristics-Qualities- Classification of Entrepreneurs - Roles of an Entrepreneur- Entrepreneur vs Intrapreneur
2	1	Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Factors Promoting an Entrepreneur
3	1	Factors affecting Entrepreneurial Growth in India - Role of entrepreneurs in India's Economic Development
4	2	EDP- Meaning-Needs-Objectives –Course Contents and Curriculum
5	2	Phases of EDP-Problems and Constraints of EDP
6	2	Organizations providing Entrepreneurship Development Programmes– Entrepreneurial Ecosystem
7	3	Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sources of Product for Business - Prefeasibility Study - Criteria for Selection of Product -
9	3	Procedures to Start a New Venture- Start-up – Need for Start-up- Business Plan for Starts up – Contents and Evaluation Criteria – Unicorn - Decacorn
10	4	Resource Mobilization- Financial resources-Human resources-Material-Physical resources - Sources of Raising Funds for an Entrepreneur (traditional and modern sources)
11	4	Angel Investors- Venture Capital - Various Institutions supporting Entrepreneurial growth - Incentives and Subsidies: Meaning-Needs
12	4	Incentives and Subsidies available to Entrepreneurs– DIC- Industrial Estates – Business Incubators
13	5	Introduction- Classification of Enterprises- Memorandum of MSMEs-Registration of MSMEs- MUDRA Scheme,
14	5	Prime Minister’s Employment Generation Programme (PMEGP), STAND-UP INDIA and START-UP INDIA
15	5	Sickness in small Business - Preventing Sickness and Rehabilitation of Business Units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDHYALAKSHMI R</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19ABB46 : E- COMMERCE AND ITS APPLICATIONS</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to E-Commerce - Categories of E-Commerce,
2	1	the Development and Growth of Electronic Commerce
3	1	Technology Infrastructure - The Internet and the World Wide Web-Origins of the Internet-Growth of the Internet.
4	1	Packet Switched Networks - Routing Packets. Internet Protocols -TCP/IP, IP Addressing, Domain Names, Electronic Mail Protocols
5	2	Mark-up Languages and The web - Mark-up Languages, Hypertext Mark-up Language, Html Tags and Links
6	2	Intranets and Extranets - Public and Private Networks, Virtual Private Network (VPN)
7	2	Internet Connection Options – Connectivity Overview, Voice Grade Telephone Connections, Broadband Connections, Leased Line Connections, Wireless Connections

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Marketing on the Web - Web marketing Strategies
9	3	Product Based Marketing Strategies, Customer Based Marketing Strategies
10	3	Advertising On the Web-Banner Ads, Text Ads and other web Ads
11	4	Electronic Commerce Security - Security for Client Computers, Communication Channel Security
12	4	Security for Server Computers, Organization that promote Computer Security.
13	5	Payment System for E Commerce - online payment Basics- Payment Cards,E-Cash,
14	5	E-Wallets,Stored Value Cards, Internet Technologies and the Banking Industry,
15	5	Criminal Activity And the payment Systems - Phishing and Identity Theft.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19BP402 : RDBMS - LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DML, DDL, DCL commands.
2	2	Writing Queries using Operators.
3	3	Built-In SQL functions.
4	3	Built-In SQL functions.
5	4	Generating Reports using SQL*PLUS Commands.
6	4	Revision Test I
7	5	Working with Constraints.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Working with Constraints.
9	6	Creating VIEWS.
10	6	Creating VIEWS.
11	7	SUB-QUERIS.
12	7	SUB-QUERIS.
13	8	JOINS
14	8	JOINS
15	9	Model Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19GBB42 : ORGANIZATIONAL BEHAVIOUR</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Organizational behavior(OB)–Features–Scope–
2	1	Fundamental Concepts of OB–Challenges and Career Development for OB– Contributing disciplines to the OB.
3	2	Individual Behavior – Personality Determinants – Big five Personality factors – Learning Theories. The Perpetual Process –
4	2	Factors influencing perception – Internal & External Attitudes and Behavior–Attitude Formation and Attitude Change.
5	2	Group Behavior – Fundamentals of Groups – Stages of Development –
6	2	Important Factors influencing Team Effectiveness– Cohesiveness–Norms–Decision Making.
7	3	Motivation–Motivational Processes–Theories of Motivation (Maslow,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Herzberg, Mc Clelland and Vroom) – Learning and Reinforcement Theory. Morale – Factors influencing Morale.
9	3	Revision
10	4	Power and Politics: Power bases – dependency – Individual versus Organizational Power – Political process in Organization –
11	4	factors contributing – techniques of organizational politics –
12	4	managing political behavior.
13	5	Organizational Culture – Concepts – Forming a Culture – Sustaining a Culture- Changing a Culture – Conflict – Transition in Conflict Thought –
14	5	Functional and Dysfunctional Conflict –Process of Conflict – Managing Conflict.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>3</b>
Subject	<b>19BB302 : MANAGEMENT INFORMATION SYSTEM</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to information systems(IS): why study IS- why business need information technology (IT)
2	1	Fundamentals of IS a concept – overview of IS
3	1	Solving business problems with IS – developing IS solutions.
4	2	Information systems for business operations: Business IS – marketing, manufacturing
5	2	Human resource, accounting and financial information systems – transaction processing System
6	2	Management information and decision support systems.
7	3	Managing information technology: Managing information resource and technologies



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	global IT management
9	3	planning and implementing business change with IT.
10	4	Enterprise Resource Planning (ERP): an overview – benefits of ERP
11	4	ERP and related technologies – business process reengineering – data warehousing
12	4	Data mining –online analytical processing – supply chain management
13	5	ERP implementation: ERP implementation life cycle – implementation methodology – hidden cost – organizing the implementation
14	5	Vendors, consultants and users contracts with vendors, consultants and employees project management and monitoring
15	5	ERP present and future – turbo change the ERP systems – enterprise integration applications – ERP and E-commerce – ERP and Internet

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19BB402 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Relational Database - Using SQL*plus - Understanding the Common Oracle Data types -Structured Query Language(SQL)
2	1	Data Query Language (DQL) Statements-Data Manipulation Language(DML)Statements-Data Definition Language(DDL)
3	1	Statements-Data Transaction Language(DTL)Statements-Data Control Language(DCL)statements-Filtering and Ordering rows.
4	2	Overview of Operators and Functions: Comparison or Relational operators-Arithmetic operators-Logical operators-Special operators-String operators
5	2	SET operators Built-in SQL functions: Character functions-Numeric functions
6	2	Date functions-Conversion functions Aggregate functions-using Grouping rows and filter Group of Rows.
7	3	SQL*Plus Reports and Commands - Viewing the Structure of a table-Editing SQL statements

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Saving, Retrieving and Running Files
9	3	Formatting Columns-Setting the Page Size-Setting the Line Size-Clear Column Formatting Using Variables-Creating Simple Reports.
10	4	Database Integrity: Database Integrity - Primary key-Unique-Not null-Check-Foreign key.
11	4	Database Security-Users-Grant and Revoke-System privileges-Object privileges
12	4	Synonyms Roles, Creating table from another table- Sequences-Indexes-Views.
13	5	Subqueries: Subqueries - Single Row sub queries-Multiple Row sub queries-Multiple Column sub queries
14	5	Inline sub queries-Scalar sub queries-Nested Sub queries.
15	5	JOINS - Cartesian products-Equi joins-Non-equi joins-Outer joins-Self joins.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>19BP402 : RDBMS - LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DML, DDL, DCL commands.
2	1	Simple Queries using DML, DDL, DCL commands.
3	1	Simple Queries using DML, DDL, DCL commands.
4	2	Writing Queries using Operators.
5	2	Writing Queries using Operators.
6	2	Built-In SQL functions.
7	3	Built-In SQL functions.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Built-In SQL functions.
9	3	Generating Reports using SQL*PLUS Commands.
10	4	Working with Constraints.
11	4	Working with Constraints.
12	4	Creating VIEWS.
13	5	SUB-QUERIS.
14	5	SUB-QUERIS.
15	5	JOINS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	B.B.A Computer Application	Semester	4
Subject	EVS401S : ENVIRONMENTAL SCIENCE	Course	B.B.A Computer Application

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession – food chains, food webs and ecological pyramids –
5	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation – hot spots –
7	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>5</b>
Subject	<b>17EBB52A : INTERNET AND ITS APPLICATIONS</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic principles involved in developing a web site Planning process Five Golden rules of web designing -
2	1	Designing navigation bar Page design Home Page Layout Design Concept. Brief History of Internet
3	1	What is World Wide Web Why create a web site Web Standards.
4	2	Introduction to HTML What is HTML HTML Documents
5	2	Basic structure of an HTML document Creating an HTML document
6	2	Mark up Tags Heading-Paragraphs Line Breaks - HTML Tags.
7	3	Elements of HTML: underlined - Strike-through - superscript - subscript Horizontal Rules Colors' in web page:

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Background color - Text color - Link color Lists: Ordered Lists - Unordered Lists - Definition List
9	3	Nesting lists Images: Image formats.
10	4	Using Tables in HTML: Creating Tables Editing of rows and columns of table
11	4	rowspan colspan formatting tables using attributes
12	4	border Border colour back ground align width cell spacing ell height
13	5	Creating Forms Forms controls: text controls Password fields Radio Buttons
14	5	Check boxes Reset and Submit buttons.
15	5	Introduction to frames Advantages and disadvantages of frames creating basic frames Frame targeting.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BB602 : PROGRAMING USING MICROSOFT TECHNOLOGY (C#.NET)</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Dot Net-Introducing C# and its features
2	1	Variables-data types and
3	1	Operators.
4	2	Control Structures
5	2	Array-Classes-Methods
6	2	Namespace-Interface-Simple example using Console Application.
7	3	Introduction to C# Window Forms

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Standard Controls:Label,Button
9	3	Textbox-,Radio Button,Combo Box
10	4	Picture Box,-Timer Control
11	4	Richtext Box, Progress Bar
12	4	Datetime Picker, MenuStrip.
13	5	Introduction to ADO .Net Objects
14	5	Creating new data Connection –
15	5	Accessing data using Connection class, Command Class and DataReader Class.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BBP601 : PROGRAMING USING MICROSOFT TECHNOLOGY (C#.NET) LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	sample code using console c#
2	1	sample code using console c#
3	1	Factorial Number using methods.
4	2	Implement Arithmetic Manipulation using Namespace.
5	2	sample code using console c#
6	2	Prime number using Interface.
7	3	sample code using windows c#

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create a simple Window Forms in c#.
9	3	Create a simple Bio data.
10	4	sample code using windows c#
11	4	sample code using timer control
12	4	sample program using menu control
13	5	Login Form Creation using Ms Access
14	5	Database Application to store phone numbers along with your name.
15	5	Database Application for Student mark list processing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BBP601 : PROGRAMING USING MICROSOFT TECHNOLOGY (C#.NET) LAB</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Console Application sample program
2	1	simple Addation
3	1	Factorial Number using methods
4	2	program using method overloading
5	2	Implement Arithmetic Manipulation using Namespace
6	2	Prime number using Interface.
7	3	program using Switch statements



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Program using Looping
9	3	program using conditional statements
10	4	sample Windows Application
11	4	Create a simple Window Forms in c#.
12	4	Create a simple Bio data.
13	5	Login Form Creation using MS Access
14	5	Database Application to store phone numbers along with your name.
15	5	Database Application for Student mark list processing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>6</b>
Subject	<b>17BB601 : HUMAN RESOURCE MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Human Resources Management – definition, meaning and function of HRM -
2	1	Qualities and roles of HR manager
3	1	Problems and challenges of a HR manager.
4	2	Human Resource Planning – definition – importance - HRP process -,
5	2	Job analysis – nature, process, concept of job design
6	2	Methods- techniques– Job description- Job specification
7	3	Recruitment and selection – meaning and definition, objectives - , methods

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Recruitment and selection -sources of recruitment, process
9	3	Recruitment practice in India- interviews
10	4	Training and Development Methods- Meaning – nature, principles, assessing the needs of training
11	4	Training and Development as source of competitive advantage
12	4	Training and Development methods of training, evaluation of effectiveness of training programme
13	5	Performance And Potential Appraisal - meaning, purpose-, problem
14	5	Performance And Potential Appraisal process - methods
15	5	Performance And Potential Appraisal - managing grievances and discipline.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>B.B.A Computer Application</b>	Semester	<b>5</b>
Subject	<b>19EBB51A : INVESTMENT MANAGEMENT</b>	Course	<b>B.B.A Computer Application</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Investment Investment Meaning- Investment Vs. Speculation- Investment Vs Gambling
2	1	Important factors favorable for Investment Program
3	1	Stages in Investment - Investors Classification
4	2	Security Investment - Meaning- Bonds- Preference Shares- Equity shares
5	2	Derivatives- Options- Swaps- Futures
6	2	Mutual funds
7	3	Non Security Investment- Meaning- Government Securities- Life Insurance- UTI- Commercial banks

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Provident fund- Post office schemes
9	3	National Savings Schemes- Fixed Deposit Schemes
10	4	Risk and Return - Meaning- Historical and Expected return
11	4	Types of risk
12	4	Measurement of risk
13	5	Fundamental and Technical Analysis Meaning- Economy, Industry and Company Specific analysis
14	5	Tools for technical analysis- Charts
15	5	Support and Resistant level analysis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Barathiyar - Santhamizh Nadu
2	1	Barathithasan - Tamizhiyakam
3	1	Erodu - Tamizhanban - Valluvarin Thai Irantha Nali
4	1	Arivumathi - Pasumai Suratha - Sikkanam
5	4	Thiru. V. Ka - Sila Muraigal
6	4	Thiru.v. Ka - Sila Muraigal
7	4	S.Ramakrishnan - Kodugal Illa Varaipadam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	S.Ramakrishnan - Nadaiyal Vendra Ullagam
9	5	IIakanam - Muthal Ezhuthu , Sarbu Ezhuthu , Valortu Migum Idam Miga Idam
10	2	Silapathigaram - Vazhthurai Kathai
11	2	Manimagalai - SiraiKotam AraKotam Akiya Kathai
12	2	Kambaramayanam - jadayukan Padalam
13	2	Thirunavukarasar - Thiruanga Malai , Vallalar - Paravasa nilai , (3,6) , Kuravangi - Natuvalam Kooral (3,5,7)
14	3	Sirukathai- Kalanum kilaviyum Sirukathi - sumaitangi
15	3	Sirukathai - Nagaram

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4,1 ETTUTHOGAI
2	1	1.1 PURANAANOORU - 30,182 1.2 AGANANOORU - 105,154
3	3	.3 KURUNTHOGAI - 25,53 1.4 NATRINAI - 01,172
4	1	1.5 KALITHOGAI - 111,133
5	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 1-6
6	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 6-11
7	3	THIRUKURAL 3.1.KOODA OLUKKAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 AVAI ARITHAL 3.3 PAZHAIMAI
9	4	4.1 PATHTHUPAATTU -AATRUPPADAI NOOLGAL
10	4	4.1 PATHTHUPAATTU - AGAM, PURAM
11	2	2.1 PATHUPPAATTU - NEDUNAL VAADAI 1-63
12	2	2.2 PORUNAR AATRUPPADAI - 42- 78
13	2	2.3 MULLAI PAATTU 24- 79
14	2	2.4 MATHURAI KAAANJI 500-526
15	5	MOZHI THIRAN 5.1 KADITHANGAL 5.2 NER KAAANAL 5.3 PANBALAI VANOLI NIGALCHI THOGUPPU 5.4 VADIKKKAIALAR SEVAI MAIYAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Etuthogai
2	1	Purananooru - 50, 182 Agananooru - 105, 154
3	1	Kurunthogai - 25, 53 Nartinaai - 01, 172
4	1	Kalithigai - 111, 133
5	4	Ilakiyavaralaru - Pathinen Keelkanakil Neethi Noolgal
6	4	Ilakiyavaralaru - Pathinen Keelkanakil Neethi Noolgal
7	3	Thirukural - Koodaozukam , Avaiarithal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural - Pazamai
9	4	Ilakiyavaralaru - Pathupatu
10	4	Ilakiyavaralaru - Pathupatu
11	2	Nadunelvadai 1- 63
12	2	Porunar Artupadai 42 - 78
13	2	Mullaipatu - 24 - 79
14	2	Maduraikangi - 500 - 526
15	5	Mozhithiran

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>ASCA202A : STATISTICAL METHODS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Measures of Central tendency: Arithmetic Mean, Median
2	1	Mode. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
3	1	Standard Deviation and Coefficient of Variation
4	2	Measures of Skewness: Karl Pearson's coefficient of Skewness
5	2	Bowley's coefficient of Skewness
6	3	Correlation analysis: Karl Pearson's coefficient of correlation
7	3	Spearman's rank correlation coefficients

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Regression analysis: Simple regression equations
9	4	Tests of Significance (small samples) based on t
10	4	F distributions with respect of Mean, Variance
11	4	Correlation coefficient. Test of Significance based on Chi-Square test
12	4	Test for Independence of attributes
13	5	Analysis of Variance: One way classifications
14	5	Two way classifications
15	5	Two way classifications and revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SOUSSITRA A Dr.	Academic Year	2022-2023
Department	Computer Applications	Semester	2
Subject	21LTC02 : TAMIL - II	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a C program to find the odd or even numbers for the range of given number. 2. Write a C program to find the sum of series
2	1	3. Write a C program to generate the Fibonacci series 4. Write a C program to check whether the given year is leap year or not.
3	1	5. Write a C program to reverse a given number. 6. Write a C program to find the given number is Armstrong or not.
4	2	7. Write a C program to display the following output (a) * * * *** (b) 1 1 2 1 2 3
5	2	7. Write a C program to display the following output (c) 1 2 2 3 3 3 (d) 3 3 3 2 2 1
6	2	8. Write a C program to find the largest number among the three numbers. 9. Write a C program to find whether the person is eligible to vote or not
7	3	10. Write a C program to display the grade of the student by using conditional statement 11. Write a C program to display the arithmetic manipulation using Switch statement



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	12. Write a C program to find out the Factorial with and without using recursive function. 13. Write a C program to add a 2 numbers by using all functions.
9	3	14. Write a C program to swap 2 numbers without using the temporary variables. 15. Write a C program to find the length of the string with and without using string function.
10	4	16. Write a C program to check whether the given string is Palindrome or not.
11	4	. 17. Write a c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2)
12	4	17. Write a c program for the following matrices (c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)
13	5	18. Write a C program to generate the numbers in ascending order
14	5	19. Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array.
15	5	20. Write a C program to swap 2 numbers using pointer.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA204A : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, Definition of a Data structure
2	1	primitive and composite Data Types, Arrays
3	1	Operations on Array, Ordered lists
4	2	Stacks, Applications of Stack, Infix to Postfix Conversion
5	2	Recursion, Maze Problems, Queues, Operations on Queues
6	2	Circular Queue.
7	3	Linked List, Singly Linked List, Operations performed in singly linked list, Application of singly linked list,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Representation of a Polynomial, Polynomial Addition Doubly Linked List
9	3	Operations, Applications, Ordering Books in a Library (Alphabetical Ordering)
10	4	Trees Terminology, Tree Representation, Binary Tree properties of a Binary Trees
11	4	Binary tree Representation, Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal)
12	4	Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal), Conversion of Forest to Binary Tree
13	5	Introduction to Graph, Definition of graph, Types of Graphs
14	5	Graph Representation, Graph Traversal(BFS and DFS)
15	5	Connected components, Spanning Tree- Shortest Path (Dijkstra's Algorithm.)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Program using Classes and Objects
2	2	Program using Constructor and destructor
3	3	Program using Function overloading and Inline functions
4	1	Test in 1,2,3 programs
5	4	Program using Operator Overloading
6	5	Program using Inheritance
7	6	Program using friend functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Test in 4,5,6 programs
9	7	Implement PUSH, POP Operations of Stack using Arrays.
10	8	Implement insert, delete Operations of a queue using Arrays.
11	7	Test in 7,8 programs
12	9	Conversion of infix to postfix using stacks Operations.
13	10	Binary tree traversals using recursion
14	9	Revision with sample programs
15	10	Test in all the lab exercises

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA203A : OBJECT ORIENTED PROGRAMMING USING C++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	C++ fundamentals: Introduction to C++: Tokens, Keywords.
2	1	Identifiers, Variables, Operators, Expressions
3	1	Control Structures-Arrays in C++ - CIN-COUT.
4	2	Principles of Object Oriented Programming(OOP): Evolution of C++ - Programming Paradigms
5	2	Key Concepts of OOP
6	2	Advantages of OOP – Usage of OOP and C++.
7	3	OOPS Fundamentals: Classes and Objects: Constructors and Destructors; and Type of Constructors

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Inheritance: Single Inheritance – Multilevel inheritance
9	3	Multiple inheritance – Hierarchical Inheritance – Hybrid Inheritance.
10	4	Functions: Inline Functions – Friend Function-Virtual Function-Polymorphism: Function Overloading - Operator Overloading.
11	4	Input and Output in C++ - Streams-Stream classes- Formatted and Unformatted console I/O operations-
12	4	Member functions of istream class-manipulators-manipulators with parameters
13	5	Working with Files: Classes for File Stream Operations – Opening and Closing a File
14	5	End-of-File Detection – File Pointers – Updating a File
15	5	Error Handling during File Operations – Command-line Arguments.

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	ETTUTHOGAI NOOLGALIL..., PURANANOORU 50, 182 AAGANANOORU 105, 154
2	1	KURUNTHOGAI 25, 135 NATTRENAI 01, 172
3	1	KALITHOGAIYIL 111, 133
4	3	THIRUKKURALIL...,3 ATHIGARANGAL 30 KURATPAAKKAL 1.KOODA OZHUKKAM 2.AAVAIYARETHAL PAZHAIMAI
5	3	THIRUKKURALIL... ..PAZHAIMAI
6	4	ILLAKKIYA VARALARU ETTUTHOGAI NOOLGAL
7	4	ILLAKKIYA VARALARU PATHINEN KEZHKKANAKKIL NEETHI NOOLGAL



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPAATTU NOOLGALIL NEDUNELVAADAI 1-63 VAREGAL
9	2	PORUNERRATTRUPPADAI 42-78 VAREGAL
10	2	MULLAIPPAATTU 24-79 VAREGAL
11	2	MADURAIKKAANCHI 500-526 VAREGAL
12	4	ILLAKKIYA VARALARU PATHUPPAATTU NOOLGAL
13	5	MOZHITHIRAN KADETHAM VARAITHAL
14	5	NEER KAANEL PAYIRCHI
15	5	PANBALAI VAANOLI NIGAZHCHI THOGUPPU

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DEVI SHYAMALA MARY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>21AMCA11 : MATHEMATICAL FOUNDATIONS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Conjunction, disjunction, negation, conditional and bi conditional operators
2	1	Converse, inverse and Contra positive , logically equivalent, tautology and contradiction
3	1	Arguments and validity of arguments
4	2	Set theory-Definition, types of sets, operation on sets theory
5	2	Relations-Equivalent relation, partially ordered sets and partition of sets
6	2	Functions
7	3	Binary operation, types of binary operation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Permutation
9	3	Combination
10	4	Types of matrices, operation on matrices, simple problems, singular and non singular Matrices, adjoint of a matrix, inverse of a matrix
11	4	Symmetric, skew symmetric, Hermitian and skew hermitian matrix , orthogonal and unitary Matrix
12	4	Consistency of the system of linear equation using rank method
13	5	Characteristics roots and characteristics vector
14	5	Cayley Hamilton theorem, finding inverse of a square matrices
15	5	Verification of cayley Hamilton theorem

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny
2	1	All the World's a Stage Never Never Nest
3	1	Never Never Nest
4	5	Report Writing Note Making
5	2	Communication Skills (1-4)
6	2	Communication Skills (5-8)
7	2	Communication Skills (9-12)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	I CIA
9	3	Malala Yousufzai
10	3	Monkey's Paw
11	3	The Gift of the Magi
12	4	Interpersonal Communication skills (1-3)
13	4	Interpersonal Communication skills (4-6)
14	4	Interpersonal Communication skills (7-9) Unit 5 - Publicity Literature
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Indian Women - S. Radhakrishnan (Prose)
2	1	2. The Solitary Reaper – William Wordsworth (Poem) 3. The Purple Dress – O’Henry (Short Story)
3	2	1. Importance of Effective Communication in Business Contexts 2. Face – to - Face Communication with Customers and Visitors. 3. Basic Skills for Talking to People in Transactional Situations 4. Receiving Visitors
4	2	5. Booking Hotel Accommodation 6. Making Small Talk and Telling Stories. 7. Group Discussions 8. Preparing for Interviews
5	2	9. Taking Interviews 10. Promotion Interviews
6	5	1. Standard Business Letter 2. Applying for Jobs and Preparing Resumes
7	1	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	1. Give us a Role Model – A.P.J. Abdul Kalam (Prose)
9	3	2. Sowali – Mahasweta Devi ( Story)
10	3	3. J.R.D’s Words of Inspiration to Sudha Murthy ( Prose) UNIT 5 3. Writing cover letters for resumes
11	4	1. Preparing Agenda for Meetings 2. Writing Minutes of Meetings 3. Making Notes of Business conversations 4. Making Business Presentations
12	4	5. Business promotions and Language for Advertising 6. Negotiating 7. Communication Skills with Public, Fellow Employees, Supervisors and Customers 8. Soft Skills for Team Building
13	4	9. Team Maintenance and Task Maintenance roles 10. Brainstorming and Consensus –Making Communication
14	3	Revision
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARATHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARATHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Barathiyar - Santhamizh Nadu
2	1	Barathidasan - Tamizhiyakam
3	1	Erodu Tamizhanban - Valluvarin Thai Irantha Nalil
4	1	Arivumathi - Pasumai Suratha - Sikkanam
5	4	Thiru.V.Ka. - Sila Muraigal
6	4	Thiru.V.Ka. - Sila Muraigal
7	4	S.Ramakrishnan - Kodugal Illa Varaipadam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	S.Ramakrishnan - Nadaiyal Vendra Ulagam
9	5	Ilakanam - Muthal Ezhuthu, Sarbu Ezhuthu, Valortu Migum Idam Miga Idam
14	3	Sirukathai - Kalanum Kilaviyum Sirukathai - Sumaithangi
15	3	Sirukathai - Nagaram
10	2	Silapathigaram - Vazhthurai Kathai
11	2	Manimagalai - SiraiKotam Arakotam Akiya Kathai
12	2	Kambaramayanam - Jadayukan Padalam
13	2	Thirunavukarasar - Thiruanga Malai, Vallalar - Paravasa nilai (3,6), Kutrala Kuravangi - Natuvalam Kooral (3,5,7)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Etuthogai
2	1	Purananooru - 50, 182 Agananooru - 105, 154
3	1	Kurunthogai - 25, 53 Nartinaï - 01, 172
4	1	Kalithigai - 111, 133
5	4	Ilakiyavaralaru - Pathinen Keelkanakil Neethi Noolgal
6	4	Ilakiyavaralaru - Pathinen Keelkanakil Neethi Noolgal
7	3	Thirukural - Koodaozukam , Avaiarithal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural - Pazamai
9	4	Ilakiyavaralaru - Pathupatu
10	4	Ilakiyavaralaru - Pathupatu
11	2	Nadunelvadai 1- 63
12	2	Porunar Artupadai 42 - 78
13	2	Mullaipatu - 24 - 79
14	2	Maduraikangi - 500 - 526
15	5	Mozhithiran

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA203A : OBJECT ORIENTED PROGRAMMING USING C++</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	C++ fundamentals: Introduction to C++: Tokens,
2	1	Keywords, Identifiers, Variables, Operators, Expressions
3	1	Control Structures-Arrays in C++ - CIN-COUT.
4	2	Evolution of C++ , Programming Paradigms ,
5	2	Key Concepts of OOP
6	2	Advantages of OOP , Usage of OOP and C++
10	4	Inline Functions Friend Function-Virtual Function-Polymorphism: Function Overloading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
11	4	Operator Overloading.
12	4	Streams-Stream classes- Formatted and Unformatted console I/O operations-Member functions of istream class, manipulators-manipulators with parameters
13	5	Classes for File Stream Operations Opening and Closing a File
14	5	End-of-File Detection File Pointers Updating a File Error Handling during File Operations
15	5	Command-line Arguments
7	3	Classes and Objects: Constructors and Destructors
8	3	Type of Constructors Inheritance: Single Inheritance
9	3	Multilevel inheritance Multiple inheritance Hierarchical Inheritance Hybrid Inheritance.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>ASCA202A : STATISTICAL METHODS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Measures of Central tendency: Arithmetic Mean, Median
2	1	Mode. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
3	1	Standard Deviation and Coefficient of Variation
4	2	Measures of Skewness: Karl Pearson's coefficient of Skewness
5	2	Bowley's coefficient of Skewness
6	3	Correlation analysis: Karl Pearson's coefficient of correlation
7	3	Spearman's rank correlation coefficients

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Regression analysis: Simple regression equations
9	4	Tests of Significance (small samples) based on t
10	4	F distributions with respect of Mean, Variance
11	4	Correlation coefficient. Test of Significance based on Chi-Square test
12	4	Test for Independence of attributes
13	5	Analysis of Variance: One way classifications
14	5	Two way classifications
15	5	Two way classifications and revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Basics:What is Internet?-Origin of Internet-IP address-Domain name-Host Name- DNS-Port Number-WWW-URL-Web server-Web browser-Search Engine-Types of Internet Connections-Hardware Requirements-Internet accounts-Network-Types of Network- Network ...
2	1	-Domain name-Host Name- DNS-Port Number-WWW-URL-Web server-Web browser-
3	1	Search Engine-Types of Internet Connections-Hardware Requirements-Internet accounts-Network-Types of Network-Network Topologies.
4	2	Introduction to HTML: History of HTML-Structure of HTML
5	2	-Basic HTML tags-Linking HTML document
6	2	-Adding images into HTML document-List
7	3	HTML and CSS: Tables creation in HTML

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	-Frames in HTML
9	3	-Cascading Style Sheet (CSS)- Uses of CSS-Types of CSS
10	4	Java Script: Java Script Syntax-Input and Output in Java Script
11	4	-Data types- Variables- Arrays-Expressions-
12	4	Dialog box-Looping structure.
13	5	Uses of Internet: E-mail-Chat-On line Transaction-
14	5	credit card transaction-Debit card transaction-
15	5	Net banking-E-Business-Uses of internet in education-E-Shopping-Web publishing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a C program to find the odd or even numbers for the range of given number. 2. Write a C program to find the sum of series
2	1	3. Write a C program to generate the Fibonacci series 4. Write a C program to check whether the given year is leap year or not.
3	1	5. Write a C program to reverse a given number. 6. Write a C program to find the given number is Armstrong or not.
4	2	7. Write a C program to display the following output (a) * * * *** (b) 1 1 2 1 2 3
5	2	7. Write a C program to display the following output (c) 1 2 2 3 3 3 (d) 3 3 3 2 2 1
6	2	8. Write a C program to find the largest number among the three numbers. 9. Write a C program to find whether the person is eligible to vote or not
7	3	10. Write a C program to display the grade of the student by using conditional statement 11. Write a C program to display the arithmetic manipulation using Switch statement



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	12. Write a C program to find out the Factorial with and without using recursive function. 13. Write a C program to add a 2 numbers by using all functions.
9	3	14. Write a C program to swap 2 numbers without using the temporary variables. 15. Write a C program to find the length of the string with and without using string function.
10	4	16. Write a C program to check whether the given string is Palindrome or not.
11	4	. 17. Write a c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2)
12	4	17. Write a c program for the following matrices (c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)
13	5	18. Write a C program to generate the numbers in ascending order
14	5	19. Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array.
15	5	20. Write a C program to swap 2 numbers using pointer.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Program using Classes and Objects
2	1	Program using Constructor and destructor
4	2	Program using Function overloading and Inline functions
5	2	Program using Operator Overloading
6	2	Program using Inheritance
7	3	Program using friend functions
8	3	Programs using Data Structure Concepts

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Implement PUSH, POP Operations of Stack using Arrays.
10	4	Implement insert, delete Operations of a queue using Arrays.
11	4	Implement insert, delete Operations of a queue using Arrays.
12	4	Conversion of infix to postfix using stacks Operations.
13	5	Conversion of infix to postfix using stacks Operations.
14	5	Binary tree traversals using recursion
15	5	Binary tree traversals using recursion
3	1	Program using Constructor and destructor

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA204A : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, Definition of a Data structure
2	1	primitive and composite Data Types, Arrays
3	1	Operations on Array, Ordered lists
4	2	Stacks, Applications of Stack, Infix to Postfix Conversion
5	2	Recursion, Maze Problems, Queues, Operations on Queues
6	2	Circular Queue.
7	3	Linked List, Singly Linked List, Operations performed in singly linked list, Application of singly linked list,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Representation of a Polynomial, Polynomial Addition Doubly Linked List
9	3	Operations, Applications, Ordering Books in a Library (Alphabetical Ordering)
10	4	Trees Terminology, Tree Representation, Binary Tree properties of a Binary Trees
11	4	Binary tree Representation, Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal)
12	4	Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal), Conversion of Forest to Binary Tree
13	5	Introduction to Graph, Definition of graph, Types of Graphs
14	5	Graph Representation, Graph Traversal(BFS and DFS)
15	5	Connected components, Spanning Tree- Shortest Path (Dijkstra's Algorithm.)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CA102A : DIGITAL LOGIC FUNDAMENTALS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Digital logic fundamentals-Number System: Number system and its conversions. Binary, decimal, hexadecimal and octal
2	1	Basic Gates-AND, OR, NOT. Universal gates-NAND, NOR, Ex-OR, Ex-NOR Bubbled AND, Bubbled OR
3	1	Boolean Algebra-postulates
4	1	Boolean laws and Theorem
5	2	Sum of products - Product of Sums - K-map simplifications (2,3 )
6	2	K-map Simplification (4 variable, Don't care condition
7	2	Quine-Mcclausky tabulation method(2,3,4 variables)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Combinational Arithmetic Circuits: Adder – Half Adder – Full Adder – Binary Parallel Adder
9	3	Design Full adder using only half adders- Subtractor – Half Subtractor – Full Subtractor -BCD Adder.
10	4	Combinational Logic Circuits: Multiplexers (2x1 Multiplexer, 4x1 Multiplexer , 8x1 multiplexer)
11	4	Demultiplexers (1 x 2 Demultiplexer, 1 x 4 Demultiplexer, 1 x 8 Demultiplexer)
12	4	Decoders(3 to 8 line decoder, 4 to 16 line decoder) –16 to 4 line encoder
13	5	Sequential Logic Circuit: Flip-Flops - Its types - RS Flip flop, JK Flip flop, D Flip flop, T and Master Slave.
14	5	Shift Registers and its types(SISO,SIPO,PISO,PIPO registers).Counters - Asynchronous counter (Binary Ripple Counter,)
15	5	Asynchronous counter(BCD Ripple Counter)-Synchronous Counter (Binary up counter, Binary down counter, Binary Up/Down counter).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to Instructions Pair work and small group work
2	1	Linking words Small group discussions
3	2	Skimming and Scanning Checking Facts and Opinions
4	2	Product Description
5	3	Listening to Lectures
6	3	Role Play
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening Comprehension One word Substitutes
9	4	Modals Definitions
10	5	Listening to interviews of specialists Negotiation and Mind mapping
11	5	The Merchant of Venice Note Making
12	5	Developing Story from Pictures Creative writing
13	5	Significance of Written communication in business
14	0	II CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Indian Women - S. Radhakrishnan (Prose)
2	1	2. The Solitary Reaper – William Wordsworth (Poem) 3. The Purple Dress – O’Henry (Short Story)
3	2	1. Importance of Effective Communication in Business Contexts 2. Face – to - Face Communication with Customers and Visitors. 3. Basic Skills for Talking to People in Transactional Situations 4. Receiving Visitors 5. Booking Hotel Accommodation
4	2	6. Making Small Talk and Telling Stories. 7. Group Discussions 8. Preparing for Interviews 9. Taking Interviews 10. Promotion Interviews
5	3	1. Give us a Role Model – A.P.J. Abdul Kalam (Prose)
6	3	2. Sowali – Mahasweta Devi ( Story) 3. J.R.D’s Words of Inspiration to Sudha Murthy ( Prose)
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	1. Preparing Agenda for Meetings 2. Writing Minutes of Meetings 3. Making Notes of Business conversations 4. Making Business Presentations
9	4	5. Business promotions and Language for Advertising 6. Negotiating 7. Communication Skills with Public, Fellow Employees, Supervisors and Customers 8. Soft Skills for Team Building
10	4	9. Team Maintenance and Task Maintenance roles 10. Brainstorming and Consensus –Making Communication
11	5	1. Standard Business Letter
12	5	2. Applying for Jobs and Preparing Resumes 3. Writing cover letters for resumes
13	5	2. Applying for Jobs and Preparing Resumes 3. Writing cover letters for resumes
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Ettuthogai
2	1	1.1 Purananooru
3	1	1.2 Agananooru
4	1	1.3 Kurunthogai 1.4 Nartrinai
5	1	1.5 Kalithogai
6	4	4.3 Keezhkanakkil Neethi Noolgal
7	3	Thirukkural 3.1 kuudaa Ozhukkam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Avai Arithal
9	4	4.2 Paththup Paattu
10	2	2.1 Nedunal vaadai
11	2	2.2 Porunaraatrup Padai
12	2	2.3 Mullaip Paattu
13	2	2.4 Madurai Kaanchi
14	5	Mozhithiran 5.1 Kadithangal 5.2 Neerkaanal
15	5	5.3 Vaanoli Nigazhtchi Thoguppu 5.4 Vaadikkaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA407T : INTERNET TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Communication Protocols Internet Hosts Internet Protocol(IP) Addresses Domain and Host Name
2	1	Servers and Clients Ports and Port Numbers
3	1	Types of Internet Connections Internet Service Providers(ISPs)
4	2	URLs and Transfer Protocols HTML Java and JavaScript VBScript Plug-ins XML
5	2	Cascading Style Sheets(CSS) Websites
6	2	Portals Web Directories and Search Engines Home Pages.
7	3	History of HTML Structure of HTML Basic Tags of HTML List



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Linking Document
9	3	Frames Graphics to HTML Documents
10	4	Introduction to CSS Add Style to document Creating Style Sheet rules Style sheet Properties
11	4	Font text
12	4	Color and Background Color Box Properties
13	5	Introduction Advantage of JavaScript JavaScript Syntax Data type Variable
14	5	Array Operator and Expressions Looping Constructors
15	5	Function Dialog Box

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19CAP303 : PRACTICAL III - JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	Finding area of a triangle. Use Buffered Reader class.
3	1	Arithmetic Manipulation. Use Buffered Reader class.
4	1	Factorial-Use Buffered Reader class.
5	1	Sum of the Series-Use Buffered Reader class
6	1	Prime Number-Use Buffered Reader class
7	1	Greatest of Three Numbers-Use Buffered Reader class

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Basic Program using Random class
9	2	Determining the order of numbers generated randomly using
10	2	Odd or Even Checking of Randomly Generated Numbers
11	2	Random Numbers Generation Between a specified lower and upper boundary
12	2	Random Numbers Generation Between a specified lower and upper boundary
13	2	Changing Random class seed value
14	2	Changing Random class seed value
15	2	Random String with random characters

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Implement Bio-Data Information using Frame class with various controls.
2	1	Implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Implement for sending a string from one system to another using TCP/IP.
5	2	Implement for sending a string from one system to another using TCP/IP.
6	2	Chatting Application using TCP/IP.
7	3	Develop an application for telephone directory using data base(MS access).

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Implement student mark list using AWT classes with data base (MS access)
9	3	Implement student mark list using AWT classes with data base (MS access).
10	4	Develop a program for prime number using RMI.
11	4	Develop a program for Arithmetic Operation using Servlets.
12	4	Develop a program for Arithmetic Operation using Servlets.
13	5	Develop an application for simple EB Bill using Servlets with database.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Display different graphical symbols using Applet class.
5	2	To implement for sending a string from one system to another using TCP/IP.
6	2	To implement for sending a string from one system to another using TCP/IP.
7	3	Chatting Application using TCP/IP.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To develop an application for telephone directory using data base(MS access).
9	3	To develop an application for telephone directory using data base(MS access).
10	4	To implement student mark list using AWT classes with data base (MS access).
11	4	To develop a program for prime number using RMI.
12	4	To develop a program for prime number using RMI.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	sample program using AWT
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	sample program using network
5	2	To implement for sending a string from one system to another using TCP/IP.
6	2	Chatting Application using TCP/IP.
7	3	sample program using database



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To develop an application for telephone directory using data base (MS access).
9	3	To implement student mark list using AWT classes with data base (MS access).
10	4	sample code using RMI console
11	4	sample code using RMI windows
12	4	To develop a program for prime number using RMI.
13	5	sample code using servlet
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	9. To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19CA305 : PROGRAMMING USING JAVA</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Data Types
2	1	Variables
3	1	Operators
4	1	Control Statements.
5	3	Exception Handling: Try, Catch, Throws, Throw and Finally.
6	3	Exception Handling: Try,
7	3	Exception Handling: Catch

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Exception Handling: Throws, Throw and Finally.
9	3	Exception Handling- Finally.
10	4	Streams: Simple Input Streams
11	4	Simple Output Streams
12	4	File Streams
13	5	Strings: String classes
14	5	String Buffer classes.
15	5	String Buffer classes.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>ACCA401 : FINANCIAL ACCOUNTING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting-Meaning – Definition- Need for Accounting –scope of Accounting – Branches of Accounting – Methods of Accounting – Types of accounts – Accounting rules
2	1	Book Keeping and Accounting -Advantages and limitations of accounting - Accounting concepts and conventions. Journal - Introduction – Meaning- Transaction analysis for journal entries
3	1	Ledger – Meaning – Difference between journal and ledger.
4	2	Subsidiary books –Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales – purchase returns – sales returns
5	2	cash book – single column, Double column and Triple column cash book. Trial Balance
6	2	Introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance.
7	3	Bank Reconciliation Statement Introduction – Meaning – Definition – Causes for differences between cash book and pass book

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Method of preparation of Bank Reconciliation statement.
9	3	Revision
10	4	Depreciation Accounting Depreciation – Introduction, meaning, causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation – Straight line method
12	4	Methods of providing Depreciation - written down value methods only.
13	5	Final Accounts of Sole Trader Final Accounts – Introduction – Preparation of manufacturing account –
14	5	Preparation of Trading account
15	5	Preparation of profit and loss account – Balance sheet – Adjustments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>20AMCA43 : RESOURCE MANAGEMENT TECHNIQUES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – Linear programming problem: Mathematical Formulation of the problem
2	1	Graphical solution – Graphical solution method
3	1	– Simplex method
4	2	Definition, Formulation of Transportation problem-North-west corner method
5	2	Matrix minima method- Vogel's Approximation method
6	2	Optimal solution of Transportation-modi's method
7	3	Definition of Assignment models- Formulation and solution of Assignment models

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Formulation and solution of Assignment models using Hungarian Method
9	3	Unbalanced Assignment problems
10	4	Basic term used in sequencing-Processing of n jobs through two machines
11	4	Processing of n jobs through three machines
12	4	Processing two jobs through k machines-Johnson's Algorithm
13	5	Two person zero sum game-Basic terms –Maximin and Minimax principle
14	5	Games without saddle point –Mixed strategies– graphical solution of $2 \times n$ and $m \times 2$ games
15	5	Dominance property

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Computer Applications	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19ACA31B : MANAGEMENT AND PROFESSIONAL LEADERSHIP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Nature and Functions of management, Principles of management, levels of management
2	1	Management as an art, management as science and Profession, Management process, managerial skills and roles
3	1	Evolution of Management Thoughts; Managerial competencies
4	2	Planning- process of planning, elements of planning;
5	2	steps in Organizing, authority and responsibility , delegation, centralization vs. decentralization
6	2	Decision making, rationality in decision making
7	3	Communication: Meaning- Definition- Nature- Elements – Types of communication

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Communication process, Importance of communication, communication channels,
9	3	Roles and barriers to communication.
10	4	Leadership: Meaning- Definition– Nature and Characteristics of Leadership
11	4	qualities of leadership
12	4	Functions of leaders, styles of leadership,.
13	5	Motivation: Meaning- Definition-Nature and Characteristics - Process
14	5	motivation theories of motivation- Maslow’s theory- McGregor’s X and Y Theory- Herzberg’s Two factor theory
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA407T : INTERNET TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Communication Protocols Internet Hosts Internet Protocol(IP) Addresses Domain and Host Name
2	1	Servers and Clients Ports and Port Numbers
3	1	Types of Internet Connections Internet Service Providers(ISPs)
4	2	URLs and Transfer Protocols HTML Java and JavaScript VBScript Plug-ins XML
5	2	Cascading Style Sheets(CSS) Websites
6	2	Portals Web Directories and Search Engines Home Pages.
7	3	History of HTML Structure of HTML Basic Tags of HTML List

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Linking Document
9	3	Frames Graphics to HTML Documents
10	4	Introduction to CSS Add Style to document Creating Style Sheet rules Style sheet Properties
11	4	Font text
12	4	Color and Background Color Box Properties
13	5	Introduction Advantage of JavaScript JavaScript Syntax Data type Variable
14	5	Array Operator and Expressions Looping Constructors
15	5	Function Dialog Box

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Implement Bio-Data Information using Frame class with various controls.
2	1	Implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Implement for sending a string from one system to another using TCP/IP.
5	2	Implement for sending a string from one system to another using TCP/IP.
6	2	Chatting Application using TCP/IP.
7	3	Develop an application for telephone directory using data base(MS access).



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Implement student mark list using AWT classes with data base (MS access)
9	3	Implement student mark list using AWT classes with data base (MS access).
10	4	Develop a program for prime number using RMI.
11	4	Develop a program for Arithmetic Operation using Servlets.
12	4	Develop a program for Arithmetic Operation using Servlets.
13	5	Develop an application for simple EB Bill using Servlets with database.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	Display different graphical symbols using Applet class. .
3	1	To implement for sending a string from one system to another using TCP/IP. .
4	2	Chatting Application using TCP/IP.
5	2	To develop an application for telephone directory using data base(MS access).
6	2	To develop an application for telephone directory using data base(MS access).
7	3	To implement student mark list using AWT classes with data base (MS access).

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To implement student mark list using AWT classes with data base (MS access).
9	3	Model practical
10	4	To develop a program for prime number using RMI.
12	4	To develop a program for Arithmetic Operation using Servlets.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.
11	4	To develop a program for prime number using RMI.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a program to print Hello Java.
2	1	Chatting Application using TCP/IP.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	Display different graphical symbols using Applet class.
5	2	To implement Bio-Data Information using Frame class with various controls.
6	2	Write a program to illustrate the use of JDBC connection.
7	3	Write a Java program to implement the SQL login ID commands using JDBC.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Write a Java program to implement the SQL commands using JDBC.
9	3	To develop an application for telephone directory using data base(MS access).
10	4	write a program to demonstrate the use of AWT components.
11	4	To implement student mark list using AWT classes with data base (MS access).
12	4	To develop a program for prime number using RMI.
13	5	Write a program to illustrate the Client/Server applications using RMI.
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY ODILYA TEENA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19CA305 : PROGRAMMING USING JAVA</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Intoduction - Features of Java
2	1	Data types, variables
3	1	Arrays
4	1	Control structures
5	2	Classes and Objects
6	2	Constructors
7	2	Inheritance, Overloading method

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Packages
9	3	Interfaces
10	3	Exception handling techniques
11	4	Multi Threading
12	4	Streams in java
13	5	Strings
14	5	Vector class, Random class
15	5	Calendar class

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>ACCA401 : FINANCIAL ACCOUNTING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - Accounting, Meaning , Definition, Need for Accounting ,scope of Accounting,Branches of Accounting, Methods of Accounting, Types of accounts , Accounting rules.
2	1	Book Keeping and Accounting, Advantages and limitations of accounting, Accounting concepts and conventions.
3	1	Journal-Introduction,Meaning,Transaction analysis for journal entries, Ledger, Meaning, Difference between journal and ledger.
4	2	Subsidiary books, Meaning benefits of subsidiary books , preparation of individual subsidiary books, purchase, sales, purchase returns, sales returns,
5	2	cash book, single column, Double column and Triple column cashbook.
6	2	Trial Balance, Introduction, Meaning, Definition, Objectives, Errors not disclosed by trial balance, Errors disclosed by trial balance.
7	3	3 Bank Reconciliation Statement, Introduction, Meaning, Definition.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Causes for differences between cash book and pass book, Method of preparation of Bank Reconciliation statement.
9	3	Revision of Units I, II & III.
10	4	Depreciation Accounting, Introduction, meaning, causes.
11	4	Factors affecting the amount of depreciation, Methods of providing Depreciation.
12	4	Straight line method and written down value methods only.
13	5	Final Accounts–Introduction, Preparation of manufacturing account.
14	5	Trading account, profit and loss account, Balance sheet, Adjustments.
15	5	Revision of Units IV & V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE JECINTHA I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>CA306A : COMPUTER ALGORITHMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Algorithm-Pseudocode
2	1	Time complexity - Space complexity
3	1	best case, worst case and average case analysis- asymptotic notations: Big Oh, Big Omega, theta, small Oh, small Omega.
4	2	Divide and Conquer: General method- Complexity analysis- Binary search algorithm
5	2	Finding Maximum and minimum - Merge sort
6	2	Quick sort - Strassen's Matrix Multiplication
7	3	Greedy method: General method- Knapsack problem

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Prim's Algorithm - Kruskal's Algorithm
9	3	single source shortest path algorithm
10	4	Dynamic Programming: General method-definition: principle of optimality
11	4	applications of dynamic programming -multistage graph: forward approach, backward approach
12	4	Traveling salesman problem.
13	5	Graph algorithms:-Depth first search- Breadth first search
14	5	applications of graph traversals-comparison between DFS and BFS
15	5	Connected components –Biconnected components.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SAVITHAMARY A	Academic Year	2022-2023
Department	Computer Applications	Semester	4
Subject	20AMCA43 : RESOURCE MANAGEMENT TECHNIQUES	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – Linear programming problem : Mathematical Formulation of the problem
2	1	Graphical solution method – -Simplex method .
3	2	Definition , Formulation of Transportation problem
4	2	North-west corner method –Matrix minima method-
5	2	Vogel's Approximation method
6	2	Optimal solution of Transportation-modi's method
7	3	Definition of Assignment models-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Formulation and solution of Assignment models using Hungarian Method-
9	3	Unbalanced Assignment problems
10	4	Basic term used in sequencing-Processing of n jobs through two machines
11	4	Processing of n jobs through three machines-
12	4	Processing two jobs through k machines-Johnson's Algorithm
13	5	Two person zero sum game-Basic terms –Maximin and Minimax principle-
14	5	Games without saddle point –Mixed strategies–
15	5	graphical solution of $2 \times n$ and $m \times 2$ games -Dominance property.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19GCA52A : ORGANIZATIONAL BEHAVIOR</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition-Key Elements of OB-Need for studying OB
2	1	Contributing Disciplines to OB-Challenges faced by the Management
3	1	OB Frame work – OB models
4	3	Definition and Characteristics of Group-Need for people to form and join Group
5	3	Types of Group-Stages of Group Development-Team Building
6	3	Types of Team-Team Building Process
7	2	Introduction to Personality –Determinants of Personality- Personality Types –Theories of Personality



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Perceptual Process-Factors affecting Perception- Job Satisfaction-Determinants of Job Satisfaction
9	2	Need for Motivation- Maslow's Need Hierarchy Theory of Motivation.
10	4	Introduction-Nature and Need for Communication-Process of Communication-Channels of Communication-Barriers to Communication
11	4	Meaning-Functions of Leadership-Leadership Styles-Factors determining Effective Leadership
14	5	Definition-Dimensions of Organizational Climate - Determinants of Organizational Climate
15	5	Organizational Culture: Definition and Characteristics - Types of Culture.
12	4	Leadership Theories - Transactional and Transformational Leadership.
13	5	Introduction - Sources of Conflicts – Types of Conflicts – Conflict Management STRESS: Introduction - Sources of Stress – Consequences of Stress

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19SCA51 : PYTHON PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Greatest of Three numbers
2	2	Finding factorial of a Number
3	3	Generation of n prime numbers
4	4	Computing summation of series
5	5	Manipulation using List
6	6	Manipulation using List
7	7	String Manipulation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Finding factorial of a number using function.
9	9	Finding factorial of a number using function.
10	10	Generation of n prime numbers using function.
11	11	Image manipulation using Arrays
12	12	Image manipulation using Arrays
13	13	Working with Charts
14	14	Working with Charts
15	15	Working with Charts

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>ECA511 : DATA COMMUNICATION NETWORKS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction : Networks-Protocols and Standards
2	1	Line Configuration-Topology
3	1	Transmission Mode-Categories of Networks - Internetworks
4	2	OSI Model: Functions of the Layers - TCP/IP Protocol Suite
5	2	Signals - Analog and Digital Signals, Periodic and Aperiodic Signals - Digital Data Transmission
6	2	Data Terminal Equipment - Data Circuit Terminating Equipments - Modems
7	3	Transmission Media: Guided and Unguided Media - Transmission S - Media Comparison

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Error Detection and Correction - Types of Errors - Detection - VRC - LRC - CRC - Checksum - Error Correction
8	3	Multiplexing: FDM , TDM , WDM
10	4	Switching Techniques: Circuit Switching - Packet Switching - Message Switching
12	4	Routers , Gateways
11	4	Networking and Internetworking Devices: Repeaters , Bridges
13	5	Routing Algorithms: Distance Vector Routing , Link State Routing
14	5	Data Link Control: Line Discipline - Flow Control
15	5	Error Control

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>ECA616T : SOFTWARE ENGINEERING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Software Engineering, Evolving Role of Software
2	1	Characteristics of Software, Software Myths, Process Models: Waterfall Model
3	1	Evolutionary Process Models
4	2	Introduction to Requirement Engineering ,Requirement Engineering Tasks
5	2	Initiating the Requirements Engineering Process
6	2	Eliciting Requirements
7	3	Building Analysis Model, Requirement Analysis

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Data Modelling ,Flow Oriented Modelling
9	3	Class based Modelling, Creating a Behavioural model
10	4	Software Testing, Testing Methods
11	4	Software Testing Strategies, White Box Testing
12	4	Basis Path Testing, Control Structure Testing, Black box Testing
14	5	Software Change Management Process, Clean Room Software Engineering Specification
15	5	Clean Room Software Engineering: Design and Testing
13	5	Project Management , Management Spectrum, Formal Technical Reviews

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	Simple Programs (Factorial , prime number, Fibonacci series)
4	2	String Functions: ( trim,ltrim,rtrim,strtoupper,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	String Functions: ( trim,ltrim,rtrim,strtoupper,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
9	3	Create a Home Page using PHP and validating the form using javascript
10	4	Form creation using POST method
11	4	Database Operations
12	4	Login form
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA510 : PROGRAMMING USING ASP.NET AND C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Dot Net, Dot Net Framework
2	1	CLR, MSIL, JIT
3	1	Managed Code, Benefits of Dot Net.
4	2	Data types, Variables, Arrays
5	2	Methods, Interface and Delegation.
6	2	Properties and Namespace
7	3	introduction to Asp .Net: Difference between Asp and Asp.net.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Architecture of Asp.net and Execution model
9	3	Difference between Code Behind and aspx file, Implementation of simple web application
10	4	Controls in C#: Button, Textbox and Timer
11	4	PictureBox, RadioButton and Menu.
12	4	Web Controls: AdRotator, Validation and Calendar.
13	5	ADO.NET: ADO.Net Objects Model and Architecture of ADO.NET
14	5	Working with Grid control
15	5	Working with Crystal Report Viewer control.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	simple programs
2	1	To develop simple student bio data
3	2	simple program using color
4	2	Create a color chooser using standard control.
5	3	simple program using dialog
6	3	Notepad Application.
7	4	Login Form Creation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Login Form Creation using Ms Access
9	5	create simple page using session
10	5	Create an application to sending a request from one page to another using session.
11	6	create simple web pages
12	6	Create a simple website for an organization using Master Page.
13	7	simple program to connect database
14	7	develop database application for student mark list processing using validation control (Oracle)
15	8	develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19SCA51 : PYTHON PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Working with Charts
2	1	Manipulation using List Getting started with Lists
3	1	Manipulation using List
4	2	String Manipulation
5	2	String Manipulation
6	2	Image manipulation using Arrays
7	3	Image manipulation using Arrays

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Greatest of Three numbers
9	3	Finding factorial of a Number
10	4	Generation of n prime numbers
11	4	Computing summation of series
12	4	Computing summation of series
13	5	Finding factorial of a number using function.
14	5	Generation of n prime numbers using function.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: ( trim,ltrim,rtrim,strtoupper,strtoupper)
3	1	String Functions: ucfirst,ucwords,strops,substr,chartocode,)
4	2	String Functions: strlen,strev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function
7	3	floor,pow,round,rand,sqrt,max,min,hexdec.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time functions:-
9	3	strtotime,mktime,data_default_timezone_set.
10	4	Create a Home Page using PHP and validating the form using javascript.
11	4	. Form creation using POST method
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DML
2	1	DCL queries
3	2	SQL In-Built Functions
4	3	SET Operations
5	4	Views
8	7	PL/SQL Block
9	7	PL/SQL Block with exception handling

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	8	Procedures
11	9	Functions
12	10	Packages
13	11	Triggers - system triggers
14	11	Application triggers
15	12	Cursors
6	5	Joins
7	6	Sub queries

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Introduction to Oracle SQL: DDL,DML,DCL,TCL-Integrity Constraints
2	1	Introduction :Database system applications – Purpose of database systems – View of data : Data Abstraction – Instances and Schemas – Data Models.
3	1	Database Languages: Data Manipulation Language – Data Definition Language - Data storage and querying: Storage Manager – The query processor
4	4	Built-in- functions: Character functions – number functions – Date functions- Conversion functions -Aggregate functions – SET operations – Grouping and ordering data.
5	1	Database architecture- Database users and administrators: Database Users and User Interfaces – Database Administrator.
6	2	The Entity-Relationship Model - Entity sets – Relationship sets – Attributes – Constraints : Mapping Cardinalities - Keys
7	2	Entity Relationship Diagrams : Basic Structure of E-R Diagram – Mapping Cardinality in E-R diagram – Complex Attributes – Roles – Non Binary Relationship sets – Weak Entity sets.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Relational database design: First normal form – Decomposition using functional dependencies: Keys and functional dependencies
9	3	Boyce Codd normal form – Third normal form – Decomposition using Multivalued dependencies
10	3	Multivalued dependencies – Fourth normal form.
11	4	Joins - Subqueries – Views.
12	5	Introduction to PL/SQL: PL/SQL blocks
13	5	Explicit Cursors – Exception handling section
14	5	Procedures – Functions
15	5	Packages – Triggers.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE JECINTHA I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Simple Queries using DDL,DML and DCL
2	4	SQL In-Built Functions
3	4	SET Operations
4	4	Views
5	4	Joins
6	4	Sub Queries
7	5	PL/SQL Block

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Procedures
9	5	Functions
10	5	Packages
11	5	Packages
12	5	Triggers
13	5	Triggers
14	5	Cursors
15	5	Cursors

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CA614Q : OPEN SOURCE TECHNOLOGY (PHP)</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	History of PHP Language basics Lexical structure Data types variables Expressions
2	1	flow control statements if, if-else, while, do while, switch, for, foreach Functions defining functions variable scope(global and local variables)
3	1	function parameters call by reference call by value return values return single value multiple value Handling missing parameters default parameters.
4	2	STRING String constants-printing string functions: print, print_r, printf, echo, var_dump string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strev,str_word_count, strcmp, strca.
5	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.
6	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword-constructor.
7	3	BUILT IN FUNCTIONS IN PHP: Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime.
9	3	Handling Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
10	4	Handling Web Pages: HTML – HTML tags-tables-frames-images-textfiled-textarea- listbox-checkbox-select-radiobutton-button-fileupload button-file download.
11	4	Javascript –Javascript basics –validating forms.
12	4	Handling Session and Cookies: Global variables:-\$_Globals, \$_Server, \$_request, \$_Post, \$_files, \$_Cookies, \$_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table
14	5	Inserting data into the database-Updating databases
15	5	Deleting records- Accessing the database records from PHP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,)
3	1	String Functions: ( stripslashes,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	Arrays
5	2	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
6	2	Date and Time functions:- strtotime,mktime,date_default_timezone_set.
7	3	validating the form using javascript.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create a Home Page using PHP and validating the form using javascript.
9	3	Form creation using POST method
10	4	Database Operations
11	4	Database Operations
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>JCA601 : MINI PROJECT</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Format for preparing Project
2	1	Acknowledgement Preparation
3	1	Project Title front end and back end process
4	2	Table of contents
5	2	Abstract
6	2	Chapters of the Report
7	3	Chapters of the Report

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Chapters of the Report
9	3	References
10	4	Appendices
11	4	BINDING SPECIFICATION
12	4	BINDING SPECIFICATION
13	5	MARGIN SPECIFICATION
14	5	Page Numbering
15	5	Module view and demo

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>JCA601 : MINI PROJECT</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	title suggested
2	1	abstract guided
3	1	abstract correction
4	2	Problem definition guided
5	2	problem definition correction
6	2	problem specification guided
7	2	specification correction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	designing of modules
9	3	modules correction
10	4	analysis of problem
11	4	coding guided
12	4	coding correction
13	5	apply for testing
14	5	whitebox testing
15	5	documentation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>GCA63A : TECH-EMPOWERMENT ENGLISH TRAINING</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Building Vocabulary 2. Parts of Speech
2	1	3. Sentence Formation 4. Phonetic Sounds
3	2	1. Listen and Repeat 2. Situational Writing
4	2	3. British / American English -Introduction -Its Use -Difference
5	3	1. Reading Comprehension 2. Listening Comprehension
6	3	3. American English & British English Conversation
7	1	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	1. Situational Speaking 2. Public Speaking
9	4	3. Debate 4. Group Discussion
10	5	1. Book Review
11	5	2. Interview Skills
12	5	3. Mock Interview
13	3	Revision
14	5	Slip tests
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BENJAMIN FRANKLIN I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>ECA511 : DATA COMMUNICATION NETWORKS</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to networks - Basics of networks Networks - Applications of Networks - Distributed Processing - Advantages of Distributed Processing
2	1	Protocols - Elements of Protocols - Standards - Types of Standards - Line Configuration
3	1	Topologies of Network - Transmission Mode - Categories of Networks - Internetworks
4	2	Introduction to OSI Model - Layered Architecture of OSI - Functions of the Layers - TCP/IP protocol suite
5	2	Signals - Analog and Digital Signals - Periodic and Aperiodic Signals -Analog Signals - Digital Signal
6	2	Data Transmission - Data Terminal Equipment - Data Circuit Terminal Equipment - Introduction to Modems - Types of Modems
7	3	Introduction to Transmission Media - Guided Media - Types of Guided Transmission Medium - Unguided Media - Types of Unguided Transmission Medium -Transmission Impairments - Media Comparison.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multiplexing - Frequency Division Multiplexing (FDM) - Time Division Multiplexing (TDM) - Wave Division Multiplexing (WDM) - Error Detection and Correction - Types of Errors
9	3	Error Detection Techniques - Vertical Redundancy Check (VRC) -Longitudinal Redundancy Check (LRC) - Cyclic Redundancy Check (CRC) - Checksum - Error Correction.
10	4	Introduction to Switching Techniques - Circuit Switching - Space Division Switches - Crossbar and Multistage Switches - Time Division Switches - Time Slot Interchange (TSI) - TDM Bus
11	4	Packet Switching - Datagram Approach - Virtual Circuit Approach - Switched Virtual Circuit Approach - Message Switching
12	4	Networking and Internetworking Devices - Repeaters - Bridges - Simple Bridge - Multiport Bridges - Routers - Gateways.
13	5	Introduction to Routing - Introduction to Routing Algorithms - Types of Routing Algorithms - Distance Vector Routing
14	5	Link State Routing - Introduction to Data Link Control - Line Discipline - ENQ/ACK - Poll/Select
15	5	Flow Control - Stop-and-Wait - Sliding Window - Error Control - Stop-and-Wait ARQ - Sliding Window ARQ

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction on simple student bio dat
2	2	Introduction on Create a color chooser using standard control.
3	3	Introduction To develop Notepad Application.
4	4	Introduction on Login Form Creation using Ms Access.
5	5	Introduction on creating an application to sending a request from one page to another using session.
6	6	Introduction on creating an application to sending a request from one page to another using session.
7	7	Introduction on creating an application to sending a request from one page to another using session.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Introduction on Creating a simple website for an organization using Master Page.
9	9	Introduction on Creating a simple website for an organization using Master Page.
10	9	Introduction on Creating a simple website for an organization using Master Page.
11	10	Introduction on developing a database application for student mark list processing using validation control (Oracle)
12	11	Introduction on developing a database application for student mark list processing using validation control (Oracle)
13	12	Introduction on developing a database application for student mark list processing using validation control (Oracle)
14	13	Introduction on developing a database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
15	13	Introduction on developing a database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19GCA52A : ORGANIZATIONAL BEHAVIOR</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition-Key Elements of OB-Need for studying OB
2	1	Contributing Disciplines to OB-Challenges faced by the Management
3	1	OB Frame work – OB models
4	3	Definition and Characteristics of Group-Need for people to form and join Group
5	3	Types of Group-Stages of Group Development-Team Building
6	3	Types of Team-Team Building Process
7	2	Introduction to Personality –Determinants of Personality- Personality Types –Theories of Personality

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Perceptual Process-Factors affecting Perception- Job Satisfaction-Determinants of Job Satisfaction
9	2	Need for Motivation- Maslow's Need Hierarchy Theory of Motivation.
10	4	Introduction-Nature and Need for Communication-Process of Communication-Channels of Communication-Barriers to Communication
11	4	Meaning-Functions of Leadership-Leadership Styles-Factors determining Effective Leadership
14	5	Definition-Dimensions of Organizational Climate - Determinants of Organizational Climate
15	5	Organizational Culture: Definition and Characteristics - Types of Culture.
12	4	Leadership Theories - Transactional and Transformational Leadership.
13	5	Introduction - Sources of Conflicts – Types of Conflicts – Conflict Management STRESS: Introduction - Sources of Stress – Consequences of Stress

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	Simple Programs (Factorial , prime number, Fibonacci series)
4	2	String Functions: ( trim,ltrim,rtrim,strtoupper,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	String Functions: ( trim,ltrim,rtrim,strtoupper,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
9	3	Create a Home Page using PHP and validating the form using javascript
10	4	Form creation using POST method
11	4	Database Operations
12	4	Login form
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19GCA52A : ORGANIZATIONAL BEHAVIOR</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Organizational Behavior: Definition
2	1	Key Elements of Organizational Behavior
3	1	Need for Studying OB - Contributing Disciplines to OB
4	1	Challenges faced by the Management
5	1	OB Framework
6	1	OB Models
7	1	OB Models

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Commutation : Introduction
9	4	Nature and Need for Communication
10	4	Process of Communication - Channels of Communication
11	4	Barriers to Commutation
12	4	Leadership: Meaning - Functions of Leadership
13	4	Leadership Styles
14	4	Factors Detetmining Effective Leadership
15	4	Leadership Theories: Transactional and Transformational Leadership

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode,strlen,streiv,str_word_count,strcmp,strcasecmp)
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode,strlen,streiv,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Form creation using POST method
9	3	Form creation using POST method
10	4	Database Operations
11	4	Database Operations
12	4	Login form
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA510 : PROGRAMMING USING ASP.NET AND C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Dot Net:- Dot Net Framework
2	1	-CLR-MSIL-
3	1	JIT-Managed Code-Benefits of Dot Net.
4	2	C#.Net: Data types -Variables-Arrays-
5	2	Properties-Namespace-
6	2	Methods-Interface-Delegation.
7	3	Difference between Asp and Asp.net-Architecture of Asp.net

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	-Execution model-Difference between Code Behind and aspx file
9	3	-Implementation of simple web application.
10	4	Controls in C#: Button-Textbox-Timer-
11	4	PictureBox-RadioButton-Menu.
12	4	Web Controls: AdRotator-Validation-Calendar .
13	5	ADO.Net Objects Model – Architecture of ADO.NET-
14	5	Working with Grid control-
15	5	Working with Crystal Report Viewer control.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	WINDOWS APPLICATION: how to create a windows form add tools and its control
2	1	WINDOWS APPLICATION: To develop simple student bio data
3	1	WINDOWS APPLICATION: Create a color chooser using standard control.
4	2	CONSOLE APPLICATION jagged array. namespace
5	2	WINDOWS APPLICATION: To develop Notepad Application.
6	2	CONSOLE APPLICATION delegate interface
7	3	WINDOWS APPLICATION: Login Form Creation using MS Access.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	WINDOWS APPLICATION: Login Form Creation using MS Access.
9	3	WEB APPLICATION: Create an application to sending a request from one page to another using session.
10	4	WEB APPLICATION: Create a simple website for an organization using Master Page.
11	4	WEB APPLICATION: Create a simple website for an organization using Master Page.
12	4	WEB APPLICATION: Different types of Validation control
13	5	WEB APPLICATION: To develop database application for student mark list processing using validation control (Oracle)
14	5	WEB APPLICATION: To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
15	5	WEB, CONSOLE and WINDOWFORMS APPLICATION Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19SCA51 : PYTHON PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Working with Charts
2	1	Manipulation using List Getting started with Lists
3	1	Manipulation using List
4	2	String Manipulation
5	2	String Manipulation
6	2	Image manipulation using Arrays
7	3	Image manipulation using Arrays

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Greatest of Three numbers
9	3	Finding factorial of a Number
10	4	Generation of n prime numbers
11	4	Computing summation of series
12	4	Computing summation of series
13	5	Finding factorial of a number using function.
14	5	Generation of n prime numbers using function.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec.
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.
10	4	Create a Home Page using PHP and validating the form using javascript.
11	4	Form creation using POST method
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Programs using controls in C#.
2	1	Programs using Button.
3	1	Programs using Textbox.
5	2	Program using Timer Control.
6	2	Create a color chooser using standard control.
7	3	Program using PictureBox.
8	3	To develop Notepad Application.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Program for Database Connection.
12	4	Create an application to sending a request from one page to another using session.
4	2	WINDOWS APPLICATION: To develop simple student bio data
10	4	Login Form Creation using Ms Access.
11	4	WEB APPLICATION: Simple Programs using Web Application.
13	5	Create a simple website for an organization using Master Page.
14	5	To develop database application for student mark list processing using validation control (Oracle)
15	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DML
2	1	DCL queries
3	2	SQL In-Built Functions
4	3	SET Operations
5	4	Views
8	7	PL/SQL Block
9	7	PL/SQL Block with exception handling



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	8	Procedures
11	9	Functions
12	10	Packages
13	11	Triggers - system triggers
14	11	Application triggers
15	12	Cursors
6	5	Joins
7	6	Sub queries

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JUSTIN MARSHALL C	Academic Year	2022-2023
Department	Computer Applications	Semester	6
Subject	CA614Q : OPEN SOURCE TECHNOLOGY (PHP)	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASICS OF PHP:-History of php-Language basics:-Lexical structure-Data types- variables-Expressions and operators
2	1	flow control statements:if,if-else,while,do-while,switch,for,foreach-Functions:defining functions-variable scope(global and local variables)-
3	1	function parameters: call by reference-call by value-return values: return single value, multiple value-handling missing parameters-default parameters.
4	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strev,str_word_count, strcmp, strcmp.
5	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.
6	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword- constructor.
7	3	BUILT IN FUNCTIONS IN PHP: Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime. Handling
9	3	Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
10	4	Handling Web Pages: HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox- select-radiobutton-button-fileupload button-file download.
11	4	Javascript –Javascript basics –validating forms.
12	4	Handling Session and Cookies: Global variables:-\$_Globals, \$_Server, \$_request,\$_Post, \$_files, \$_Cookies, \$_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table-
14	5	Inserting data into the database-Updating databases-
15	5	Deleting records- Accessing the database records from PHP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DMLand DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Views
5	5	Joins
6	6	Sub Queries
7	7	PL/SQL Block

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Procedures
9	9	Functions
10	10	Packages
11	11	Triggers
12	12	Cursor
13	13	Model Practical exam
14	14	Model Practical exam
15	15	Model Practical exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JUSTIN MARSHALL C	Academic Year	2022-2023
Department	Computer Applications	Semester	6
Subject	CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	3	Arrays
6	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
7	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Create a Home Page using PHP and validating the form using javascript.
9	6	Form creation using POST method
10	7	Database Operations
11	7	Database Operations
12	8	Login form
13	9	Student mark list creation
14	9	Student mark list creation
15	10	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	: DDL,DML,DCL,TCL
2	4	-Integrity Constraints-Built-in- functions: Character functions – number functions-Date functions- Conversion functions-number functions
3	4	Date functions- Conversion functions - Aggregate functions – SET operations – Grouping and ordering data – Joins - Subqueries – Views.
4	1	Database system applications – Purpose of database systems – View of data : Data Abstraction – Instances and Schemas
5	1	Data Models – Database Languages: Data Manipulation Language – Data Definition Language - Data storage and querying: Storage Manager – The query processor
6	1	Database architecture- Database users and administrators: Database Users and User Interfaces – Database Administrator.
7	2	Entitysets – Relationshipsets – Attributes – Constraints : Mapping Cardinalities - Keys – Entity Relationship Diagrams



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Basic Structure of E-R Diagram – Mapping Cardinality in E-R diagram
9	2	Complex Attributes – Roles – Non Binary Relationships – Weak Entity sets.
10	5	PL/SQL blocks – Explicit Cursors
11	5	Exception handling section – Procedures – Functions
12	5	Packages – Triggers.
13	3	First normal form – Decomposition using functional dependencies: Keys and functional dependencies –
14	3	Boyce Codd normal form – Third normal form –
15	3	Decomposition using Multivalued dependencies: Multivalued dependencies – Fourth normal form.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>JCA601 : MINI PROJECT</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Format for preparing Project
2	1	Acknowledgement Preparation
3	1	Project Title front end and back end process
4	2	Table of contents
5	2	Abstract
6	2	Chapters of the Report
7	3	Chapters of the Report

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Chapters of the Report
9	3	References
10	4	Appendices
11	4	BINDING SPECIFICATION
12	4	BINDING SPECIFICATION
13	5	MARGIN SPECIFICATION
14	5	Page Numbering
15	5	Module view and demo

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>JCA601 : MINI PROJECT</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	title suggested
2	1	abstract guided
3	1	abstract correction
4	2	Problem definition guided
5	2	problem definition correction
6	2	problem specification guided
7	2	specification correction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	designing of modules
9	3	modules correction
10	4	analysis of problem
11	4	coding guided
12	4	coding correction
13	5	apply for testing
14	5	whitebox testing
15	5	documentation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>GCA63A : TECH-EMPOWERMENT ENGLISH TRAINING</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Building Vocabulary 2. Parts of Speech
2	1	3. Sentence Formation 4. Phonetic Sounds
3	2	1. Listen and Repeat 2. Situational Writing
4	2	3. British / American English -Introduction -Its Use -Difference
5	3	1. Reading Comprehension
6	3	2. Listening Comprehension 3. American English & British English Conversation
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	1. Situational Speaking
9	4	2. Public Speaking
10	4	3. Debate 4. Group Discussion
11	5	1. Book Review
12	5	2. Interview Skills
13	5	3. Mock Interview
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Etuthogai
2	1	Purananooru - 50, 182 Agananooru - 105, 154
3	1	Kurunthogai - 25, 53 Nartinaai - 01, 172
4	1	Kalithigai - 111, 133
5	4	Ilakiyavaralaru - Pathinen Keelkanakil Neethi Noolgal
6	4	Ilakiyavaralaru - Pathinen Keelkanakil Neethi Noolgal
7	3	Thirukural - Koodaozukam , Avaiarithal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural - Pazamai
9	4	Ilakiyavaralaru - Pathupatu
10	4	Ilakiyavaralaru - Pathupatu
11	2	Nadunelvadai 1- 63
12	2	Porunar Artupadai 42 - 78
13	2	Mullaipatu - 24 - 79
14	2	Maduraikangi - 500 - 526
15	5	Mozhithiran

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a C program to find the odd or even numbers for the range of given number. Write a C program to find the sum of series
2	1	Write a C program to generate the Fibonacci series Write a C program to check whether the given year is leap year or not.
3	1	Write a C program to reverse a given number. Write a C program to find the given number is Armstrong or not
4	2	Write a C program to display the following output 1 1 2 1 2 3 1 2 2 3 3 3
5	2	Write a C program to display the following output 3 3 3 2 2 1
6	2	Write a C program to find the largest number among the three numbers. Write a C program to find whether the person is eligible to vote or not
7	3	Write a C program to display the grade of the student by using conditional statement Write a C program to display the arithmetic manipulation using Switch statement

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Write a C program to find out the Factorial with and without using recursive function.
9	3	Write a C program to add a 2 numbers by using all functions.
10	4	Write a C program to swap 2 numbers without using the temporary variables.
11	4	Write a C program to find the length of the string with and without using string function.
12	4	Write a C program to check whether the given string is Palindrome or not.
13	5	Write a c program for the following matrices Addition Matrix (3X3) Subtraction Matrix (2X2) Multiplication Matrix (2X2) Transpose Matrix (3X3)
14	5	Write a C program to generate the numbers in ascending order.
15	5	Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array. Write a C program to swap 2 numbers using pointer.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Program using Classes and Objects
2	1	Program using Classes and Objects
3	1	Implement PUSH, POP Operations of Stack using Arrays.
4	2	Program using Constructor and destructor
5	2	Program using Constructor and destructor
6	2	Implement insert, delete Operations of a queue using Arrays.
7	3	Program using Function overloading and Inline functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Program using Function overloading and Inline functions
9	3	Program using friend functions
10	4	Program using Operator Overloading
11	4	Program using Operator Overloading
12	4	Conversion of infix to postfix using stacks Operations
13	5	Program using Inheritance
14	5	Program using Inheritance
15	5	Tree traversal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA203A : OBJECT ORIENTED PROGRAMMING USING C++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	C++ fundamentals: Introduction to C++: Tokens,
2	1	Keywords, Identifiers, Variables, Operators, Expressions
3	1	Control Structures-Arrays in C++ - CIN-COUT.
4	2	Evolution of C++ , Programming Paradigms ,
5	2	Key Concepts of OOP
6	2	Advantages of OOP , Usage of OOP and C++
10	4	Inline Functions Friend Function-Virtual Function-Polymorphism: Function Overloading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
11	4	Operator Overloading.
12	4	Streams-Stream classes- Formatted and Unformatted console I/O operations-Member functions of ostream class, manipulators-manipulators with parameters
13	5	Classes for File Stream Operations Opening and Closing a File
14	5	End-of-File Detection File Pointers Updating a File Error Handling during File Operations
15	5	Command-line Arguments
7	3	Classes and Objects: Constructors and Destructors
8	3	Type of Constructors Inheritance: Single Inheritance
9	3	Multilevel inheritance Multiple inheritance Hierarchical Inheritance Hybrid Inheritance.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>ASCA202A : STATISTICAL METHODS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Measures of Central tendency: Arithmetic Mean, Median
2	1	Mode. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
3	1	Standard Deviation and Coefficient of Variation
4	2	Measures of Skewness: Karl Pearson's coefficient of Skewness
5	2	Bowley's coefficient of Skewness
6	3	Correlation analysis: Karl Pearson's coefficient of correlation
7	3	Spearman's rank correlation coefficients



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Regression analysis: Simple regression equations
9	4	Tests of Significance (small samples) based on t
10	4	F distributions with respect of Mean, Variance
11	4	Correlation coefficient. Test of Significance based on Chi-Square test
12	4	Test for Independence of attributes
13	5	Analysis of Variance: One way classifications
14	5	Two way classifications
15	5	Two way classifications and revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SOUSSITRA A Dr.	Academic Year	2022-2023
Department	Computer Applications	Semester	2
Subject	21LTC02 : TAMIL - II	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bharathiyar
2	1	Bharathi dhasan
3	1	Erodu Thamizhanban
4	1	Arivumathi Suratha
5	4	Thiru.. V. Ka
6	4	Thiru. V.ka
7	4	Kodugal illatha varai padam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Nadayal vendra ulagan
9	5	Thamil ilakkanam
10	2	Silappathiharam
11	2	Mani megalai
12	2	Seevaga sinthamani
13	2	Appar Vallalar Kutrala kuravanji
14	3	Kalanum kizhaviyum Sumai thangi
15	3	Nagaram

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthogai noolgal
2	1	Pura nanooru 50,182
3	1	Aha nanooru 105,154
4	1	Kurunthogai 25,53
5	1	Natrinai 01,172
6	1	Kalithohai 111,133
7	3	Koodavozhukkam 1-10 Avayarithel 1-5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Avayarithel 6-10 Pazhimai 1-10
9	4	Pathnen keezh kanakkil neethi noolgal
10	4	Pathu pattu
11	2	Nedunal vadai
12	2	Porunaratrau padai
13	2	Mullai pattu 24-79
14	2	Mathurai kanji 500-526
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Write a C program to find the odd or even numbers for the range of given number.
2	1	2. Write a C program to find the sum of series
3	1	3. Write a C program to generate the Fibonacci series
4	2	4. Write a C program to check whether the given year is leap year or not.
5	2	5. Write a C program to reverse a given number.
6	2	6. Write a C program to find the given number is Armstrong or not. 7. Write a C program to display the following output (a) * * * * * (b) 1 1 2 1 2 3 (c) 1 2 2 3 3 3 (d) 3 3 3 2 2 1
7	3	8. Write a C program to find the largest number among the three numbers.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	9. Write a C program to find whether the person is eligible to vote or not 10. Write a C program to display the grade of the student by using conditional statement
9	3	11. Write a C program to display the arithmetic manipulation using Switch statement 12. Write a C program to find out the Factorial with and without using recursive function.
10	4	13. Write a C program to add a 2 numbers by using all functions. 14. Write a C program to swap 2 numbers without using the temporary variables.
11	4	15. Write a C program to find the length of the string with and without using string function. 16. Write a C program to check whether the given string is Palindrome or not.
12	4	17. Write a c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2) (c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)
13	5	18. Write a C program to generate the numbers in ascending order.
14	5	19. Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array
15	5	20. Write a C program to swap 2 numbers using pointer.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CA102A : DIGITAL LOGIC FUNDAMENTALS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Number System: Number system and its conversions.
2	1	The Basic Gates - Universal Gates.
3	1	Boolean Algebra - Boolean Laws and Theorem.
4	2	Simplification: Sum of products - Product of Sums.
5	2	K-map simplifications (2,3 and 4 variables) - Don't care conditions.
6	2	QuineMcclusky tabulation method (2,3 and 4 variables).
7	3	Combinational Arithmetic Circuits: Adder – Half Adder – Full Adder.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Binary Parallel Adder-Design Full adder using only half adders.
9	3	Subtractor – Half Subtractor – Full Subtractor -BCD Adder.
10	4	Combinational Logic Circuits: Multiplexers (2x1 Multiplexer, 4x1 Multiplexer , 8x1 multiplexer).
11	4	Demultiplexers (1 x 2 Demultiplexer, 1 x 4 Demultiplexer, 1 x 8 Demultiplexer).
12	4	Decoders(3 to 8 line decoder, 4 to 16 line decoder) –Encoders( 8 to 3 line encoder, 16 to 4 line encoder).
13	5	Sequential Logic Circuit: Flip-Flops - Its types - RS Flip flop, JK Flip flop, D Flip flop, T and Master Slave.
14	5	Shift Registers and its types(SISO,SIPO,PISO,PIPO registers).
15	5	Counters - Asynchronous counter (Binary Ripple Counter, BCD Ripple Counter) - Synchronous Counter (Binary up counter, Binary down counter, Binary Up/Down counter).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Program using Classes and Objects
2	2	Program using Constructor and destructor
3	3	Program using Function overloading and Inline functions
4	1	Test in 1,2,3 programs
5	4	Program using Operator Overloading
6	5	Program using Inheritance
7	6	Program using friend functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Test in 4,5,6 programs
9	7	Implement PUSH, POP Operations of Stack using Arrays.
10	8	Implement insert, delete Operations of a queue using Arrays.
11	7	Test in 7,8 programs
12	9	Conversion of infix to postfix using stacks Operations.
13	10	Binary tree traversals using recursion
14	9	Revision with sample programs
15	10	Test in all the lab exercises

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA204A : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Definition of a Data structure – primitive and composite Data Types, ,
2	1	Arrays, Operations on Array
3	1	operations on array (continued)- Ordered lists.
4	2	Stacks and Queues: Stacks – Applications of Stack – Infix to Postfix Conversion, -
5	2	Recursion, Maze Problems – Queues – Operations on Queues
6	2	Queue Applications- Circular Queue.
7	3	Linked List: Singly Linked List – Operations, Application – Applications.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Representation of a Polynomial, Polynomial Addition; Doubly Linked List – Operations,
9	3	Ordering Books in a Library (Alphabetical Ordering)
10	4	Trees: Terminology-Tree Representation Binary Tree: properties of a Binary Trees –Binary tree Representation-
11	4	Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal)
12	4	Conversion of Forest to Binary Tree
13	5	Graph: Introduction – Definition – Types of Graphs - Graph Representation
14	5	Graph Traversal(BFS and DFS)–Connected components
15	5	Spanning Tree- Shortest Path (Dijkstra's Algorithm.)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Computer Applications	Semester	1
Subject	LTC101A : TAMIL - I	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DEVI SHYAMALA MARY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>21AMCA11 : MATHEMATICAL FOUNDATIONS</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conjunction, disjunction, negation, conditional and bi conditional operators
2	1	Converse, inverse and Contra positive , logically equivalent, tautology and contradiction
3	1	Arguments and validity of arguments
4	2	Set theory-Definition, types of sets, operation on sets theory
5	2	Relations-Equivalent relation, partially ordered sets and partition of sets
6	2	Functions
7	3	Binary operation, types of binary operation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Permutation
9	3	Combination
10	4	Types of matrices, operation on matrices, simple problems, singular and non singular Matrices, adjoint of a matrix, inverse of a matrix
11	4	Symmetric, skew symmetric, Hermitian and skew hermitian matrix , orthogonal and unitary Matrix
12	4	Consistency of the system of linear equation using rank method
13	5	Characteristics roots and characteristics vector
14	5	Cayley Hamilton theorem, finding inverse of a square matrices
15	5	Verification of cayley Hamilton theorem

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANGEL W	Academic Year	2022-2023
Department	Computer Applications	Semester	1
Subject	LEC101A : COMMUNICATIVE ENGLISH - I	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	12	Character is Destiny- S. RADHA KRISHNAN Understanding Communication
2	2	Greeting and Introducing Making Requests Agreeing and Disagreeing
3	12	All the world's a stage Seeking and Giving Permission Persuading and Debating
4	2	Sounds and Symbols in English Word and Sentence Stress Effective use of Intonation
5	2	Telephone manners in Business Situations Handling customer orders and enquiries Handling Complaint calls
6	15	The Never Never Nest-Cedric Mount Note-Making Report-Writing
7	125	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Publicity Literature
9	4	Effective Listening Understanding the Audience Perceptual Clarity
10	4	Channel Awareness Role of Non-Verbal Communication
11	4	Pragmatics Handling Delivery and After -Sales problems
12	4	Taking part in Teleconferences Tele- Interviews
13	3	The Gift of the Magi- O Henry Malala Yousafzai
14	3	The Monkey's Paw- W.W. Jacob
15	345	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Indian women- S.Radhakrishnan ( prose) Importance of effective communication in business context
2	2	Face to face communication with customers and visitors Basic skills for talking to people in transactional situations Receiving visitors
3	1	The solitary reaper - William Wordsworth Standard business letters Applying for jobs, preparing resumes
4	2	Booking Hotel Accommodation Making small talk and telling stories Group discussions.
5	2	The Purple dress- O Henry ( prose) Preparing for interviews Taking interviews
6	3	Promotion Interviews
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Give us a Role model - Dr. A.P.J Abdul Kalam
9	4	Preparing agenda for meetings Writing minutes of meetings Making notes for business conversations.
10	4	Business promotions and Language for Advertising Negotiating
11	4	Communication skills with public, fellow employees, supervisors and customers Soft skills for team building
12	4	Team maintenance and task maintenance roles Brainstorming and consensus- making Communication
13	5	Writing cover letters for resumes
14	5	Revision
15	5	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Program using Classes and Objects
2	2	2. Program using Constructor and destructor
3	3	3. Program using Function overloading and Inline functions
4	3	3. Program using Function overloading and Inline functions
5	4	4. Program using Operator Overloading
6	4	4. Program using Operator Overloading
7	5	5. Program using Inheritance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	6	6. Program using friend functions
9	7	7. Implement PUSH, POP Operations of Stack using Arrays.
10	7	7. Implement PUSH, POP Operations of Stack using Arrays.
11	8	8. Implement insert, delete Operations of a queue using Arrays.
12	8	8. Implement insert, delete Operations of a queue using Arrays.
13	9	9. Conversion of infix to postfix using stacks Operations.
14	9	9. Conversion of infix to postfix using stacks Operations.
15	10	10. Binary tree traversals using recursion

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a C program to find the odd or even numbers for the range of given number. Write a C program to find the sum of series
2	1	Write a C program to generate the Fibonacci series Write a C program to check whether the given year is leap year or not.
3	1	Write a C program to reverse a given number. Write a C program to find the given number is Armstrong or not
4	2	Write a C program to display the following output 1 1 2 1 2 3 1 2 2 3 3 3
5	2	Write a C program to display the following output 3 3 3 2 2 1
6	2	Write a C program to find the largest number among the three numbers. Write a C program to find whether the person is eligible to vote or not
7	3	Write a C program to display the grade of the student by using conditional statement Write a C program to display the arithmetic manipulation using Switch statement

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Write a C program to find out the Factorial with and without using recursive function.
9	3	Write a C program to add a 2 numbers by using all functions.
10	4	Write a C program to swap 2 numbers without using the temporary variables.
11	4	Write a C program to find the length of the string with and without using string function.
12	4	Write a C program to check whether the given string is Palindrome or not.
13	5	Write a c program for the following matrices Addition Matrix (3X3) Subtraction Matrix (2X2) Multiplication Matrix (2X2) Transpose Matrix (3X3)
14	5	Write a C program to generate the numbers in ascending order.
15	5	Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array. Write a C program to swap 2 numbers using pointer.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Program using Classes and Objects
2	1	Program using Classes and Objects
3	1	Implement PUSH, POP Operations of Stack using Arrays.
4	2	Program using Constructor and destructor
5	2	Program using Constructor and destructor
6	2	Implement insert, delete Operations of a queue using Arrays.
7	3	Program using Function overloading and Inline functions



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Program using Function overloading and Inline functions
9	3	Program using friend functions
10	4	Program using Operator Overloading
11	4	Program using Operator Overloading
12	4	Conversion of infix to postfix using stacks Operations
13	5	Program using Inheritance
14	5	Program using Inheritance
15	5	Tree traversal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA203A : OBJECT ORIENTED PROGRAMMING USING C+ +</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	C++ fundamentals: Introduction to C++: Tokens,
2	1	Keywords, Identifiers, Variables, Operators, Expressions
3	1	Control Structures-Arrays in C++ - CIN-COUT.
4	2	Evolution of C++ , Programming Paradigms ,
5	2	Key Concepts of OOP
6	2	Advantages of OOP , Usage of OOP and C++
10	4	Inline Functions Friend Function-Virtual Function- Polymorphism: Function Overloading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
11	4	Operator Overloading.
12	4	Streams-Stream classes- Formatted and Unformatted console I/O operations-Member functions of istream class, manipulators-manipulators with parameters
13	5	Classes for File Stream Operations Opening and Closing a File
14	5	End-of-File Detection File Pointers Updating a File Error Handling during File Operations
15	5	Command-line Arguments
7	3	Classes and Objects: Constructors and Destructors
8	3	Type of Constructors Inheritance: Single Inheritance
9	3	Multilevel inheritance Multiple inheritance Hierarchical Inheritance Hybrid Inheritance.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>ASCA202A : STATISTICAL METHODS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Measures of Central tendency: Arithmetic Mean, Median
2	1	Mode. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
3	1	Standard Deviation and Coefficient of Variation
4	2	Measures of Skewness: Karl Pearson's coefficient of Skewness
5	2	Bowley's coefficient of Skewness
6	3	Correlation analysis: Karl Pearson's coefficient of correlation
7	3	Spearman's rank correlation coefficients

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Regression analysis: Simple regression equations
9	4	Tests of Significance (small samples) based on t
10	4	F distributions with respect of Mean, Variance
11	4	Correlation coefficient. Test of Significance based on Chi-Square test
12	4	Test for Independence of attributes
13	5	Analysis of Variance: One way classifications
14	5	Two way classifications
15	5	Two way classifications and revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CAP101T : PRACTICAL - I PROGRAMMING IN C</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a C program to find the odd or even numbers for the range of given number. 2. Write a C program to find the sum of series
2	1	3. Write a C program to generate the Fibonacci series 4. Write a C program to check whether the given year is leap year or not.
3	1	5. Write a C program to reverse a given number. 6. Write a C program to find the given number is Armstrong or not.
4	2	7. Write a C program to display the following output (a) * * * *** (b) 1 1 2 1 2 3
5	2	7. Write a C program to display the following output (c) 1 2 2 3 3 3 (d) 3 3 3 2 2 1
6	2	8. Write a C program to find the largest number among the three numbers. 9. Write a C program to find whether the person is eligible to vote or not
7	3	10. Write a C program to display the grade of the student by using conditional statement 11. Write a C program to display the arithmetic manipulation using Switch statement



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	12. Write a C program to find out the Factorial with and without using recursive function. 13. Write a C program to add a 2 numbers by using all functions.
9	3	14. Write a C program to swap 2 numbers without using the temporary variables. 15. Write a C program to find the length of the string with and without using string function.
10	4	16. Write a C program to check whether the given string is Palindrome or not.
11	4	. 17. Write a c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2)
12	4	17. Write a c program for the following matrices (c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)
13	5	18. Write a C program to generate the numbers in ascending order
14	5	19. Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array.
15	5	20. Write a C program to swap 2 numbers using pointer.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CA204A : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, Definition of a Data structure
2	1	primitive and composite Data Types, Arrays
3	1	Operations on Array, Ordered lists
4	2	Stacks, Applications of Stack, Infix to Postfix Conversion
5	2	Recursion, Maze Problems, Queues, Operations on Queues
6	2	Circular Queue.
7	3	Linked List, Singly Linked List, Operations performed in singly linked list, Application of singly linked list,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Representation of a Polynomial, Polynomial Addition Doubly Linked List
9	3	Operations, Applications, Ordering Books in a Library (Alphabetical Ordering)
10	4	Trees Terminology, Tree Representation, Binary Tree properties of a Binary Trees
11	4	Binary tree Representation, Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal)
12	4	Binary Tree Traversals (Inorder Traversal, Preorder Traversal, Postorder Traversal), Conversion of Forest to Binary Tree
13	5	Introduction to Graph, Definition of graph, Types of Graphs
14	5	Graph Representation, Graph Traversal(BFS and DFS)
15	5	Connected components, Spanning Tree- Shortest Path (Dijkstra's Algorithm.)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>CA102A : DIGITAL LOGIC FUNDAMENTALS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Number System: Number system and its conversions.
2	1	The Basic Gates - Universal Gates.
3	1	Boolean Algebra - Boolean Laws and Theorem.
4	2	Simplification: Sum of products - Product of Sums.
5	2	K-map simplifications (2,3 and 4 variables) - Don't care conditions.
6	2	QuineMcclusky tabulation method (2,3 and 4 variables).
7	3	Combinational Arithmetic Circuits: Adder – Half Adder – Full Adder.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Binary Parallel Adder-Design Full adder using only half adders.
9	3	Subtractor – Half Subtractor – Full Subtractor -BCD Adder.
10	4	Combinational Logic Circuits: Multiplexers (2x1 Multiplexer, 4x1 Multiplexer , 8x1 multiplexer).
11	4	Demultiplexers (1 x 2 Demultiplexer, 1 x 4 Demultiplexer, 1 x 8 Demultiplexer).
12	4	Decoders(3 to 8 line decoder, 4 to 16 line decoder) –Encoders( 8 to 3 line encoder, 16 to 4 line encoder).
13	5	Sequential Logic Circuit: Flip-Flops - Its types - RS Flip flop, JK Flip flop, D Flip flop, T and Master Slave.
14	5	Shift Registers and its types(SISO,SIPO,PISO,PIPO registers).
15	5	Counters - Asynchronous counter (Binary Ripple Counter, BCD Ripple Counter) - Synchronous Counter (Binary up counter, Binary down counter, Binary Up/Down counter).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>CAP202T : PRACTICAL - II PROGRAMMING IN C ++</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Program using Classes and Objects
2	2	Program using Constructor and destructor
3	3	Program using Function overloading and Inline functions
4	1	Test in 1,2,3 programs
5	4	Program using Operator Overloading
6	5	Program using Inheritance
7	6	Program using friend functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Test in 4,5,6 programs
9	7	Implement PUSH, POP Operations of Stack using Arrays.
10	8	Implement insert, delete Operations of a queue using Arrays.
11	7	Test in 7,8 programs
12	9	Conversion of infix to postfix using stacks Operations.
13	10	Binary tree traversals using recursion
14	9	Revision with sample programs
15	10	Test in all the lab exercises

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI C
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4,1 ETTUTHOGAI
2	1	1.1 PURANAANOORU - 30,182 1.2 AGANANOORU - 105,154
3	1	1.3 KURUNTHOGAI - 25,53 1.4 NATRINAI - 01,172
4	1	1.5 KALITHOGAI - 111,133
5	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 1-6
6	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 6-11
7	3	THIRUKURAL 3.1.KOODA OLUKKAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 AVAI ARITHAL 3.3 PAZHAIMAI
9	4	4.1 PATHTHUPAATTU -AATRUPPADAI NOOLGAL
10	4	4.1 PATHTHUPAATTU - AGAM, PURAM
11	2	2.1 PATHUPPAATTU - NEDUNAL VAADAI 1-63
12	2	2.2 PORUNAR AATRUPPADAI - 42- 78
13	2	2.3 MULLAI PAATTU 24- 79
14	2	2.4 MATHURAI KAAANJI 500-526
15	5	MOZHI THIRAN 5.1 KADITHANGAL 5.2 NER KAAANAL 5.3 PANBALAI VANOLI NIGALCHI THOGUPPU 5.4 VADIKKKAIALAR SEVAI MAIYAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Computer Applications	Semester	1
Subject	LTC101A : TAMIL - I	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthokai
2	1	Purananuru - 50, 182 Akananuru - 105, 154
3	1	Kunthokai - 25, 53 Natrinai - 01, 172
4	1	Kalithokai - 111, 133
5	4	Pathnen kezhkanakkil neethi noolgal 1-5
6	4	Pathnen kezhkanakkil neethi noolgal 6-11
7	3	Thirukkural - Kooda Ozhukkam, Pazhaimai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Avaiyarithal
9	4	Pathupattu noolgal 1-5
10	4	Parhupattu noolgal 6-10
11	2	Nedunal vadai 1-63
12	2	Porunar Aatru padai 42-78
13	2	Mullai pattu 24-79
14	2	Madurai Kanchi 500-526
15	5	Mozgithiran - Kadithangal, Nerkanal, Panpalai vanoli nigazhchi thoguppu, Vadikkaiyalar sevai maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Indian Women - S. Radhakrishnan (Prose)
2	1	2. The Solitary Reaper – William Wordsworth (Poem) 3. The Purple Dress – O’Henry (Short Story)
3	2	1. Importance of Effective Communication in Business Contexts 2. Face – to - Face Communication with Customers and Visitors. 3. Basic Skills for Talking to People in Transactional Situations 4. Receiving Visitors 5. Booking Hotel Accommodation
4	2	6. Making Small Talk and Telling Stories. 7. Group Discussions 8. Preparing for Interviews 9. Taking Interviews 10. Promotion Interviews
5	3	1. Give us a Role Model – A.P.J. Abdul Kalam (Prose)
6	3	2. Sowali – Mahasweta Devi ( Story) 3. J.R.D’s Words of Inspiration to Sudha Murthy ( Prose)
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	1. Preparing Agenda for Meetings 2. Writing Minutes of Meetings 3. Making Notes of Business conversations 4. Making Business Presentations
9	4	5. Business promotions and Language for Advertising 6. Negotiating 7. Communication Skills with Public, Fellow Employees, Supervisors and Customers 8. Soft Skills for Team Building
10	4	9. Team Maintenance and Task Maintenance roles 10. Brainstorming and Consensus –Making Communication
11	5	1. Standard Business Letter
12	5	2. Applying for Jobs and Preparing Resumes 3. Writing cover letters for resumes
13	5	2. Applying for Jobs and Preparing Resumes 3. Writing cover letters for resumes
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Indian Women - S. Radhakrishnan (Prose)
2	1	2. The Solitary Reaper – William Wordsworth (Poem) 3. The Purple Dress – O’Henry (Short Story)
3	2	1. Importance of Effective Communication in Business Contexts 2. Face – to - Face Communication with Customers and Visitors. 3. Basic Skills for Talking to People in Transactional Situations 4. Receiving Visitors
4	2	5. Booking Hotel Accommodation 6. Making Small Talk and Telling Stories. 7. Group Discussions 8. Preparing for Interviews
5	2	9. Taking Interviews 10. Promotion Interviews
6	5	1. Standard Business Letter 2. Applying for Jobs and Preparing Resumes
7	1	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	1. Give us a Role Model – A.P.J. Abdul Kalam (Prose)
9	3	2. Sowali – Mahasweta Devi ( Story)
10	3	3. J.R.D’s Words of Inspiration to Sudha Murthy ( Prose) UNIT 5 3. Writing cover letters for resumes
11	4	1. Preparing Agenda for Meetings 2. Writing Minutes of Meetings 3. Making Notes of Business conversations 4. Making Business Presentations
12	4	5. Business promotions and Language for Advertising 6. Negotiating 7. Communication Skills with Public, Fellow Employees, Supervisors and Customers 8. Soft Skills for Team Building
13	4	9. Team Maintenance and Task Maintenance roles 10. Brainstorming and Consensus –Making Communication
14	3	Revision
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARATHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARATHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA407T : INTERNET TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Communication Protocols Internet Hosts Internet Protocol(IP) Addresses Domain and Host Name
2	1	Servers and Clients Ports and Port Numbers
3	1	Types of Internet Connections Internet Service Providers(ISPs)
4	2	URLs and Transfer Protocols HTML Java and JavaScript VBScript Plug-ins XML
5	2	Cascading Style Sheets(CSS) Websites
6	2	Portals Web Directories and Search Engines Home Pages.
7	3	History of HTML Structure of HTML Basic Tags of HTML List

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Linking Document
9	3	Frames Graphics to HTML Documents
10	4	Introduction to CSS Add Style to document Creating Style Sheet rules Style sheet Properties
11	4	Font text
12	4	Color and Background Color Box Properties
13	5	Introduction Advantage of JavaScript JavaScript Syntax Data type Variable
14	5	Array Operator and Expressions Looping Constructors
15	5	Function Dialog Box

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA407T : INTERNET TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	HTML tags
2	3	History of HTML
3	3	Structure of HTML,
4	3	Basic Tags of HTML
5	3	List, Un ordered list,, unordered list , Definition list
6	3	Linking document
7	3	Frames

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	JavaScript : Introduction
9	5	Advantage of JavaScript
10	5	JavaScript Syntax , data type
11	5	Variable
12	5	Array
13	5	Operator & Expressions
14	5	Looping Constructors
15	5	Function , Dialog Box

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Display different graphical symbols using Applet class.
5	2	To implement for sending a string from one system to another using TCP/IP.
6	2	To implement for sending a string from one system to another using TCP/IP.
7	3	Chatting Application using TCP/IP.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To develop an application for telephone directory using data base(MS access).
9	3	To develop an application for telephone directory using data base(MS access).
10	4	To implement student mark list using AWT classes with data base (MS access).
11	4	To develop a program for prime number using RMI.
12	4	To develop a program for prime number using RMI.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Write a program to print Hello Java.
2	1	Chatting Application using TCP/IP.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	Display different graphical symbols using Applet class.
5	2	To implement Bio-Data Information using Frame class with various controls.
6	2	Write a program to illustrate the use of JDBC connection.
7	3	Write a Java program to implement the SQL login ID commands using JDBC.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Write a Java program to implement the SQL commands using JDBC.
9	3	To develop an application for telephone directory using data base(MS access).
10	4	write a program to demonstrate the use of AWT components.
11	4	To implement student mark list using AWT classes with data base (MS access).
12	4	To develop a program for prime number using RMI.
13	5	Write a program to illustrate the Client/Server applications using RMI.
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To implement Bio-Data Information using Frame class with various controls. .
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Display different graphical symbols using Applet class.
5	3	To implement for sending a string from one system to another using TCP/IP.
6	4	Chatting Application using TCP/IP.
7	5	To develop an application for telephone directory using data base (MS access).

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	To develop an application for telephone directory using data base (MS access).
9	6	To implement student mark list using AWT classes with data base (MS access).
10	6	To implement student mark list using AWT classes with data base (MS access).
12	8	To develop a program for prime number using RMI.
13	8	To develop a program for Arithmetic Operation using Servlets.
14	9	To develop an application for simple EB Bill using Servlets with database.
15	9	To develop an application for simple EB Bill using Servlets with database(continued)
11	7	To develop a program for prime number using RMI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19ACA31 : MANAGEMENT AND PROFESSIONAL LEADERSHIP</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nature and functions of management, principles of management, levels of management, management as an art,
2	1	management as science and profession, management process, managerial skills and roles;
3	1	Evolution of Management Thoughts; Managerial competencies
4	2	Planning- process of planning, elements of planning; steps in Organizing , authority and responsibility ,
5	2	delegation, centralization vs. decentralization; decision making,
6	2	rationality in decision making
7	3	Communication: Meaning- Definition- Nature- Elements – Types of communication

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	- Communication process, Importance of communication, communication channels, Roles and barriers to communication.
9	1	Revision
10	4	Leadership: Meaning- Definition– Nature and Characteristics of Leadership-
11	4	qualities of leadership - Functions of leaders, styles of leadership,.
12	5	Motivation: Meaning- Definition-Nature and Characteristics - Process of motivation
13	5	theories of motivation- Maslow's theory- Mc Gregor's X and Y Theory-
14	5	Herzberg's Two factor theory
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>ACCA401 : FINANCIAL ACCOUNTING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting-Meaning – Definition- Need for Accounting –scope of Accounting – Branches of Accounting – Methods of Accounting – Types of accounts – Accounting rules
2	1	Book Keeping and Accounting -Advantages and limitations of accounting - Accounting concepts and conventions. Journal - Introduction – Meaning- Transaction analysis for journal entries
3	1	Ledger – Meaning – Difference between journal and ledger.
4	2	Subsidiary books –Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales – purchase returns – sales returns
5	2	cash book – single column, Double column and Triple column cash book. Trial Balance
6	2	Introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance.
7	3	Bank Reconciliation Statement Introduction – Meaning – Definition – Causes for differences between cash book and pass book



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Method of preparation of Bank Reconciliation statement.
9	3	Revision
10	4	Depreciation Accounting Depreciation – Introduction, meaning, causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation – Straight line method
12	4	Methods of providing Depreciation - written down value methods only.
13	5	Final Accounts of Sole Trader Final Accounts – Introduction – Preparation of manufacturing account –
14	5	Preparation of Trading account
15	5	Preparation of profit and loss account – Balance sheet – Adjustments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Example program in AWT classes
2	1	preparing student biodata using awt classes
3	1	basics applet program
4	1	various graphics symbols in applet
5	2	sending message from client system to server
6	2	chatting application using client and server
7	3	basic database program

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	creating telephone directory in java using Ms access
9	3	preparing student marklist using database in awt
10	4	basic RMI application
11	4	finding prime numbers using RMI application
12	4	finding odd or even using RMI
13	5	basic servlet program
14	5	arithmetic operations using servlet
15	5	preparing EB bill using servlet with ms access

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA408A : ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	AWT Overview: Components, Container-AWT classes-Button, TextField
2	1	Checkbox-Layouts-Simple example using AWT. Applet: Introduction to Applet
3	1	Life Cycle of Applet.- methods in applet -Simple example using applet.
4	2	Networks: Network Basics-socket overview
5	2	Internet Addressing-DNS-client server communication
6	2	TCP/IP-URL-Example using network concepts.
7	3	DataBase: JDBC-ODBC Driver-types of driver

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Connection class-Statement class
9	3	ResultSet class-Example using database (MS Access).
10	4	RMI: Introduction to RMI-RMI package-classes and methods
11	4	stub and skeleton-architecture of RMI
12	4	Requirements for distributed applications-steps to write RMI program-example program using RMI
13	5	servlet overview-first servlet program
14	5	servlet chaining-servlet management
15	5	Session Tracking-simple database program using Servlet.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMA PRIYA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>20AMCA43 : RESOURCE MANAGEMENT TECHNIQUES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Linear Programming Problem I Mathematical formulation
2	1	Graphical method
3	1	Simplex method
4	2	Transportation problem Mathematical formulation for transportation problem
5	2	North West Corner rule Least Cost entry method
6	2	Vogel's approximation method Test of optimality
7	2	Modi's method Degeneracy problems

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Assignment problem Hungarian method
9	3	Unbalanced Assignment problem Restricted Assignment problem
10	4	Sequencing problem Processing n jobs through two jobs
11	4	Processing n jobs through three Machines
12	4	Graphical method Simple problems
13	5	Game theory Mixed strategy
14	5	Pure strategy Dominance property
15	5	Graphical method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Computer Applications	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA407T : INTERNET TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Communication Protocols Internet Hosts Internet Protocol(IP) Addresses Domain and Host Name
2	1	Servers and Clients Ports and Port Numbers
3	1	Types of Internet Connections Internet Service Providers(ISPs)
4	2	URLs and Transfer Protocols HTML Java and JavaScript VBScript Plug-ins XML
5	2	Cascading Style Sheets(CSS) Websites
6	2	Portals Web Directories and Search Engines Home Pages.
7	3	History of HTML Structure of HTML Basic Tags of HTML List

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Linking Document
9	3	Frames Graphics to HTML Documents
10	4	Introduction to CSS Add Style to document Creating Style Sheet rules Style sheet Properties
11	4	Font text
12	4	Color and Background Color Box Properties
13	5	Introduction Advantage of JavaScript JavaScript Syntax Data type Variable
14	5	Array Operator and Expressions Looping Constructors
15	5	Function Dialog Box

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Display different graphical symbols using Applet class.
5	2	To implement for sending a string from one system to another using TCP/IP.
6	2	To implement for sending a string from one system to another using TCP/IP.
7	3	Chatting Application using TCP/IP.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To develop an application for telephone directory using data base(MS access).
9	3	To develop an application for telephone directory using data base(MS access).
10	4	To implement student mark list using AWT classes with data base (MS access).
11	4	To develop a program for prime number using RMI.
12	4	To develop a program for prime number using RMI.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Write a program to print Hello Java.
2	1	Chatting Application using TCP/IP.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	Display different graphical symbols using Applet class.
5	2	To implement Bio-Data Information using Frame class with various controls.
6	2	Write a program to illustrate the use of JDBC connection.
7	3	Write a Java program to implement the SQL login ID commands using JDBC.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Write a Java program to implement the SQL commands using JDBC.
9	3	To develop an application for telephone directory using data base(MS access).
10	4	write a program to demonstrate the use of AWT components.
11	4	To implement student mark list using AWT classes with data base (MS access).
12	4	To develop a program for prime number using RMI.
13	5	Write a program to illustrate the Client/Server applications using RMI.
14	5	To develop a program for Arithmetic Operation using Servlets.
15	5	To develop an application for simple EB Bill using Servlets with database.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls. .
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	Display different graphical symbols using Applet class.
5	3	To implement for sending a string from one system to another using TCP/IP.
6	4	Chatting Application using TCP/IP.
7	5	To develop an application for telephone directory using data base (MS access).

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	To develop an application for telephone directory using data base (MS access).
9	6	To implement student mark list using AWT classes with data base (MS access).
10	6	To implement student mark list using AWT classes with data base (MS access).
12	8	To develop a program for prime number using RMI.
13	8	To develop a program for Arithmetic Operation using Servlets.
14	9	To develop an application for simple EB Bill using Servlets with database.
15	9	To develop an application for simple EB Bill using Servlets with database(continued)
11	7	To develop a program for prime number using RMI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY ODILYA TEENA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19CA305 : PROGRAMMING USING JAVA</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Intoduction - Features of Java
2	1	Data types, variables
3	1	Arrays
4	1	Control structures
5	2	Classes and Objects
6	2	Constructors
7	2	Inheritance, Overloading method

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Packages
9	3	Interfaces
10	3	Exception handling techniques
11	4	Multi Threading
12	4	Streams in java
13	5	Strings
14	5	Vector class, Random class
15	5	Calendar class

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>ACCA401 : FINANCIAL ACCOUNTING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting-Meaning – Definition- Need for Accounting –scope of Accounting – Branches of Accounting – Methods of Accounting – Types of accounts – Accounting rules
2	1	Book Keeping and Accounting -Advantages and limitations of accounting - Accounting concepts and conventions. Journal - Introduction – Meaning- Transaction analysis for journal entries
3	1	Ledger – Meaning – Difference between journal and ledger.
4	2	Subsidiary books –Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales – purchase returns – sales returns
5	2	cash book – single column, Double column and Triple column cash book. Trial Balance
6	2	Introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance.
7	3	Bank Reconciliation Statement Introduction – Meaning – Definition – Causes for differences between cash book and pass book

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Method of preparation of Bank Reconciliation statement.
9	3	Revision
10	4	Depreciation Accounting Depreciation – Introduction, meaning, causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation – Straight line method
12	4	Methods of providing Depreciation - written down value methods only.
13	5	Final Accounts of Sole Trader Final Accounts – Introduction – Preparation of manufacturing account –
14	5	Preparation of Trading account
15	5	Preparation of profit and loss account – Balance sheet – Adjustments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19ACA31 : MANAGEMENT AND PROFESSIONAL LEADERSHIP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Management – Meaning – Definition – Nature – Functions of Management
2	1	Principles of Management - Levels of Management - Management as an Art - Management as Science and Profession - Management Process
3	1	Managerial Skills and Roles - Evolution of Management Thoughts - Managerial competencies
4	2	Planning-Meaning – Definition - Process of planning – Types of Planning - Elements of planning
5	2	Planning Methods – Abstracts for Effective Planning – Organising – Meaning – Definition – Characteristics - Steps in Organizing –Organisation Structure - Authority and Responsibility
6	2	Delegation - Centralization vs. Decentralization - Decision making - Rationality in Decision Making
7	3	Communication: Meaning- Definition- Nature- Elements of Communication - Types of communication



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Communication process - Importance of communication - communication channels - Roles and barriers to communication
9	3	REVISION UNITS I, II, III
10	4	Leadership - Meaning- Definition– Nature and Characteristics of Leadership
11	4	Objectives of Leadership - Qualities of leadership - Functions of leaders
12	4	Skills of Leader - Styles of leadership -Theories of Leadership
13	5	Motivation: Meaning- Definition-Nature and Characteristics – Important – Types of Motivation
14	5	Process of motivation- Theories of motivation- Maslow's theory- McGregor's X and Y Theory- Herzberg's two factor theory
15	5	REVISION UNITS IV, V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE JECINTHA I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>CA306A : COMPUTER ALGORITHMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Algorithm-Pseudocode
2	1	Time complexity - Space complexity
3	1	best case,worst case and average case analysis- asymptotic notations: Big Oh,BigOmega,theta,smallOh,small Omega.
4	2	Divide and Conquer: General method- Complexity analysis- Binary search algorithm
5	2	Finding Maximum and minimum - Merge sort
6	2	Quick sort - Strassen's Matrix Multiplication
7	3	Greedy method: General method- Knapsack problem

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Prim's Algorithm - Kruskal's Algorithm
9	3	single source shortest path algorithm
10	4	Dynamic Programming: General method-definition: principle of optimality
11	4	applications of dynamic programming -multistage graph: forward approach, backward approach
12	4	Traveling salesman problem.
13	5	Graph algorithms:-Depth first search- Breadth first search
14	5	applications of graph traversals-comparison between DFS and BFS
15	5	Connected components –Biconnected components.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Example program in AWT classes
2	1	preparing student biodata using awt classes
3	1	basics applet program
4	1	various graphics symbols in applet
5	2	sending message from client system to server
6	2	chatting application using client and server
7	3	basic database program

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	creating telephone directory in java using Ms access
9	3	preparing student marklist using database in awt
10	4	basic RMI application
11	4	finding prime numbers using RMI application
12	4	finding odd or even using RMI
13	5	basic servlet program
14	5	arithmetic operations using servlet
15	5	preparing EB bill using servlet with ms access

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>CA408A : ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	AWT Overview: Components, Container-AWT classes-Button, TextField
2	1	Checkbox-Layouts-Simple example using AWT. Applet: Introduction to Applet
3	1	Life Cycle of Applet.- methods in applet -Simple example using applet.
4	2	Networks: Network Basics-socket overview
5	2	Internet Addressing-DNS-client server communication
6	2	TCP/IP-URL-Example using network concepts.
7	3	DataBase: JDBC-ODBC Driver-types of driver

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Connection class-Statement class
9	3	ResultSet class-Example using database (MS Access).
10	4	RMI: Introduction to RMI-RMI package-classes and methods
11	4	stub and skeleton-architecture of RMI
12	4	Requirements for distributed applications-steps to write RMI program-example program using RMI
13	5	servlet overview-first servlet program
14	5	servlet chaining-servlet management
15	5	Session Tracking-simple database program using Servlet.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMA PRIYA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>4</b>
Subject	<b>20AMCA43 : RESOURCE MANAGEMENT TECHNIQUES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Linear Programming Problem I Mathematical formulation
2	1	Graphical method
3	1	Simplex method
4	2	Transportation problem Mathematical formulation for transportation problem
5	2	North West Corner rule Least Cost entry method
6	2	Vogel's approximation method Test of optimality
7	2	Modi's method Degeneracy problems



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Assignment problem Hungarian method
9	3	Unbalanced Assignment problem Restricted Assignment problem
10	4	Sequencing problem Processing n jobs through two jobs
11	4	Processing n jobs through three Machines
12	4	Graphical method Simple problems
13	5	Game theory Mixed strategy
14	5	Pure strategy Dominance property
15	5	Graphical method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Computer Applications	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust
14	5	wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Computer Applications	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>ECA511 : DATA COMMUNICATION NETWORKS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction : Networks-Protocols and Standards
2	1	Line Configuration-Topology
3	1	Transmission Mode-Categories of Networks - Internetworks
4	2	OSI Model: Functions of the Layers - TCP/IP Protocol Suite
5	2	Signals - Analog and Digital Signals, Periodic and Aperiodic Signals - Digital Data Transmission
6	2	Data Terminal Equipment - Data Circuit Terminating Equipments - Modems
7	3	Transmission Media: Guided and Unguided Media - Transmission S - Media Comparison



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Error Detection and Correction - Types of Errors - Detection - VRC - LRC - CRC - Checksum - Error Correction
8	3	Multiplexing: FDM , TDM , WDM
10	4	Switching Techniques: Circuit Switching - Packet Switching - Message Switching
12	4	Routers , Gateways
11	4	Networking and Internetworking Devices: Repeaters , Bridges
13	5	Routing Algorithms: Distance Vector Routing , Link State Routing
14	5	Data Link Control: Line Discipline - Flow Control
15	5	Error Control

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>ECA616T : SOFTWARE ENGINEERING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Software Engineering, Evolving Role of Software
2	1	Characteristics of Software, Software Myths, Process Models: Waterfall Model
3	1	Evolutionary Process Models
4	2	Introduction to Requirement Engineering ,Requirement Engineering Tasks
5	2	Initiating the Requirements Engineering Process
6	2	Eliciting Requirements
7	3	Building Analysis Model, Requirement Analysis

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Data Modelling ,Flow Oriented Modelling
9	3	Class based Modelling, Creating a Behavioural model
10	4	Software Testing, Testing Methods
11	4	Software Testing Strategies, White Box Testing
12	4	Basis Path Testing, Control Structure Testing, Black box Testing
14	5	Software Change Management Process, Clean Room Software Engineering Specification
15	5	Clean Room Software Engineering: Design and Testing
13	5	Project Management , Management Spectrum, Formal Technical Reviews

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	String Functions: (trim,ltrim,rtrim,strlen,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen, strrev, str_word_count, strcmp, strcasecmp)
4	2	String Functions: (trim,ltrim,rtrim,strlen,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen, strrev, str_word_count, strcmp, strcasecmp)
5	2	Arrays
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Form creation using POST method
9	3	Form creation using POST method
10	4	Database Operations
11	4	Database Operations
12	4	Login form
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA510 : PROGRAMMING USING ASP.NET AND C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Dot Net, Dot Net Framework
2	1	CLR, MSIL, JIT
3	1	Managed Code, Benefits of Dot Net.
4	2	Data types, Variables, Arrays
5	2	Methods, Interface and Delegation.
6	2	Properties and Namespace
7	3	introduction to Asp .Net: Difference between Asp and Asp.net.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Architecture of Asp.net and Execution model
9	3	Difference between Code Behind and aspx file, Implementation of simple web application
10	4	Controls in C#: Button, Textbox and Timer
11	4	PictureBox, RadioButton and Menu.
12	4	Web Controls: AdRotator, Validation and Calendar.
13	5	ADO.NET: ADO.Net Objects Model and Architecture of ADO.NET
14	5	Working with Grid control
15	5	Working with Crystal Report Viewer control.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	simple programs
2	1	To develop simple student bio data
3	2	simple program using color
4	2	Create a color chooser using standard control.
5	3	simple program using dialog
6	3	Notepad Application.
7	4	Login Form Creation



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Login Form Creation using Ms Access
9	5	create simple page using session
10	5	Create an application to sending a request from one page to another using session.
11	6	create simple web pages
12	6	Create a simple website for an organization using Master Page.
13	7	simple program to connect database
14	7	develop database application for student mark list processing using validation control (Oracle)
15	8	develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Simple Queries using DDL,DML and DCL
2	1	2. SQL In-Built Functions
3	1	3. SET Operations
4	2	4. Views
5	2	5. Joins
6	2	6. Sub Queries
7	3	7. Sample queries using views and joins

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	8. PL/SQL Block
9	3	9. Procedures
10	4	10. SPL/SQL Block using Procedures.
11	4	11. Functions
12	4	12. PL/SQL Block using Functions.
13	5	13. Packages
14	5	14. Triggers
15	5	15. Cursors

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper)
3	1	String Functions: ucfirst,ucwords,strops,substr,chartocode,)
4	2	String Functions: strlen,strev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function
7	3	floor,pow,round,rand,sqrt,max,min,hexdec.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time functions:-
9	3	strtotime,mktime,data_default_timezone_set.
10	4	Create a Home Page using PHP and validating the form using javascript.
11	4	. Form creation using POST method
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Programs using controls in C#.
2	1	Programs using Button.
3	1	Programs using Textbox.
5	2	Program using Timer Control.
6	2	Create a color chooser using standard control.
7	3	Program using PictureBox.
8	3	To develop Notepad Application.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Program for Database Connection.
12	4	Create an application to sending a request from one page to another using session.
4	2	WINDOWS APPLICATION: To develop simple student bio data
10	4	Login Form Creation using Ms Access.
11	4	WEB APPLICATION: Simple Programs using Web Application.
13	5	Create a simple website for an organization using Master Page.
14	5	To develop database application for student mark list processing using validation control (Oracle)
15	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19SCA51 : PYTHON PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Python Program to add two numbers
2	1	Python Program for arithmetic operation.
3	1	Find the greatest of three numbers.
4	2	Find the factorial of a number.
5	2	Generate n prime numbers.
6	2	Find the summation of series.
7	3	Find the factorial of a number using function.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Generate n prime numbers using function.
9	3	Generating different types of Chart.
13	5	Python program to sort list in ascending order and descending order.
14	5	String Manipulation.
15	5	Image Manipulation using Arrays.
11	4	Perform different types of manipulation using List.
12	4	Python program to remove item from list.
10	4	Generate Scatter chart and Subplot chart.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CA615A : OPERATING SYSTEMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction:History of Operating system - Operating system functions –Definition of Operating System–Different services of the operating system
2	1	Uses of System Calls –User's view of the operating system –The Macro Facility –GUI –The Kernel –Booting
3	1	Information Management (IM) –File system– Disk space allocation method–Directory structure.
10	4	GUI: – Components of GUI – Requirements of Windows based GUI
11	4	Security Protection: Threats – Attacks – Worms – Virus
4	2	Process Management: Inter-process communication.
5	2	Dead Lock - Dead Lock prerequisites.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	2	Dead Lock Strategies.
7	3	Memory Management: - Single Contiguous – Fixed Partitioned.
8	3	Variable Partitions – Non-Contiguous allocations.
9	3	Paging – Segmentation - Virtual Memory Management Systems.
12	4	Design principles – Authentication – Protection mechanisms – Encryption.
13	5	Unix OS: Overview of Unix-Unix File System: Users View of File System-Types of Files.
14	5	Internals of File System: Logical Layout of the File-The Super Block-Structure of inode-Address Translation-run-Time Data Structure for File system: UFDT-File Table-Inode Table.
15	5	System Calls: Open-Read-Write-Random Seek-Close-Create a File-Unlink a File-Change Directory. Basic Commands in Unix.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CA614Q : OPEN SOURCE TECHNOLOGY (PHP)</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BASICS OF PHP:-History of PHP-Language basics:-Lexical structure-Data types-variables-Expressions and operators
2	1	flow control statements:if,if-else,while,do-while,switch,for,foreach-
3	1	Functions:defining functions-variable scope(global and local variables)-function parameters: call by reference-call by value-return values: return single value, multiple value-handling missing parameters-default parameters
4	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strev,str_word_count, strcmp, strc.
5	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.
6	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword-constructor.
7	4	Handling Web Pages: HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox-select-radiobutton-button-fileupload button-file download.Javascript

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Javascript basics –validating forms.
9	4	Handling Session and Cookies: Global variables:-\$_Globals, \$_Server, \$_request, \$_Post, \$_files, \$_Cookies, \$_Session.
10	3	BUILT IN FUNCTIONS IN PHP: Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.
11	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime.
12	3	Handling Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table-Inserting data into the database.
14	5	Updating databases-Deleting records
15	5	Accessing the database records from PHP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DML
2	1	DCL queries
3	2	SQL In-Built Functions
4	3	SET Operations
5	4	Views
8	7	PL/SQL Block
9	7	PL/SQL Block with exception handling

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	8	Procedures
11	9	Functions
12	10	Packages
13	11	Triggers - system triggers
14	11	Application triggers
15	12	Cursors
6	5	Joins
7	6	Sub queries

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
3	3	Arrays
4	1	Test in 1,2,3 lab exercises
5	4	. Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
6	5	Create a Home Page using PHP and validating the form using javascript.
7	6	Form creation using POST method



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	6	Test in general programs
9	5	Test in 4,5,6 lab exercises
10	7	Database Operations
11	7	Test in lab exercise 7
12	8	Login form
13	9	Student mark list creation
14	10	Electricity bill preparation.
15	10	Model exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUNA KRITHIKA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Introduction to Oracle SQL: DDL,DML,DCL,TCL-Integrity Constraints
2	1	Introduction :Database system applications – Purpose of database systems – View of data : Data Abstraction – Instances and Schemas – Data Models.
3	1	Database Languages: Data Manipulation Language – Data Definition Language - Data storage and querying: Storage Manager – The query processor
4	4	Built-in- functions: Character functions – number functions – Date functions- Conversion functions -Aggregate functions – SET operations – Grouping and ordering data.
5	1	Database architecture- Database users and administrators: Database Users and User Interfaces – Database Administrator.
6	2	The Entity-Relationship Model - Entity sets – Relationship sets – Attributes – Constraints : Mapping Cardinalities - Keys
7	2	Entity Relationship Diagrams : Basic Structure of E-R Diagram – Mapping Cardinality in E-R diagram – Complex Attributes – Roles – Non Binary Relationship sets – Weak Entity sets.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Relational database design: First normal form – Decomposition using functional dependencies: Keys and functional dependencies
9	3	Boyce Codd normal form – Third normal form – Decomposition using Multivalued dependencies
10	3	Multivalued dependencies – Fourth normal form.
11	4	Joins - Subqueries – Views.
12	5	Introduction to PL/SQL: PL/SQL blocks
13	5	Explicit Cursors – Exception handling section
14	5	Procedures – Functions
15	5	Packages – Triggers.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DMLand DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Views
5	5	Joins
6	6	Sub Queries
7	7	PL/SQL Block

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Procedures
9	9	Functions
10	10	Packages
11	11	Triggers
12	12	Cursor
13	13	Model Practical exam
14	14	Model Practical exam
15	15	Model Practical exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	Simple Programs (Factorial , prime number, Fibonacci series)
4	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
7	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
9	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
10	3	Arrays
11	3	Arrays
12	3	Arrays
13	4	. Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
14	4	. Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
15	4	. Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>GCA63A : TECH-EMPOWERMENT ENGLISH TRAINING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Parts of Speech
2	1	Parts of Speech
3	1	Sounds and Symbols - Vowels
4	1	Diphthongs
5	1	Consonants
6	1	Consonants
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Debate
9	4	Debate
10	4	Group Discussion
11	4	Group Discussion
12	5	Book Review
13	5	Book Review
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BENJAMIN FRANKLIN I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>ECA511 : DATA COMMUNICATION NETWORKS</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to networks - Basics of networks Networks - Applications of Networks - Distributed Processing - Advantages of Distributed Processing
2	1	Protocols - Elements of Protocols - Standards - Types of Standards - Line Configuration
3	1	Topologies of Network - Transmission Mode - Categories of Networks - Internetworks
4	2	Introduction to OSI Model - Layered Architecture of OSI - Functions of the Layers - TCP/IP protocol suite
5	2	Signals - Analog and Digital Signals - Periodic and Aperiodic Signals -Analog Signals - Digital Signal
6	2	Data Transmission - Data Terminal Equipment - Data Circuit Terminal Equipment - Introduction to Modems - Types of Modems
7	3	Introduction to Transmission Media - Guided Media - Types of Guided Transmission Medium - Unguided Media - Types of Unguided Transmission Medium -Transmission Impairments - Media Comparison.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multiplexing - Frequency Division Multiplexing (FDM) - Time Division Multiplexing (TDM) - Wave Division Multiplexing (WDM) - Error Detection and Correction - Types of Errors
9	3	Error Detection Techniques - Vertical Redundancy Check (VRC) - Longitudinal Redundancy Check (LRC) - Cyclic Redundancy Check (CRC) - Checksum - Error Correction.
10	4	Introduction to Switching Techniques - Circuit Switching - Space Division Switches - Crossbar and Multistage Switches - Time Division Switches - Time Slot Interchange (TSI) - TDM Bus
11	4	Packet Switching - Datagram Approach - Virtual Circuit Approach - Switched Virtual Circuit Approach - Message Switching
12	4	Networking and Internetworking Devices - Repeaters - Bridges - Simple Bridge - Multiport Bridges - Routers - Gateways.
13	5	Introduction to Routing - Introduction to Routing Algorithms - Types of Routing Algorithms - Distance Vector Routing
14	5	Link State Routing - Introduction to Data Link Control - Line Discipline - ENQ/ACK - Poll/Select
15	5	Flow Control - Stop-and-Wait - Sliding Window - Error Control - Stop-and-Wait ARQ - Sliding Window ARQ

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19GCA52A : ORGANIZATIONAL BEHAVIOR</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition-Key Elements of OB-Need for studying OB
2	1	Contributing Disciplines to OB-Challenges faced by the Management
3	1	OB Frame work – OB models
4	3	Definition and Characteristics of Group-Need for people to form and join Group
5	3	Types of Group-Stages of Group Development-Team Building
6	3	Types of Team-Team Building Process
7	2	Introduction to Personality –Determinants of Personality- Personality Types –Theories of Personality

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Perceptual Process-Factors affecting Perception- Job Satisfaction-Determinants of Job Satisfaction
9	2	Need for Motivation- Maslow's Need Hierarchy Theory of Motivation.
10	4	Introduction-Nature and Need for Communication-Process of Communication-Channels of Communication-Barriers to Communication
11	4	Meaning-Functions of Leadership-Leadership Styles-Factors determining Effective Leadership
14	5	Definition-Dimensions of Organizational Climate - Determinants of Organizational Climate
15	5	Organizational Culture: Definition and Characteristics - Types of Culture.
12	4	Leadership Theories - Transactional and Transformational Leadership.
13	5	Introduction - Sources of Conflicts – Types of Conflicts – Conflict Management STRESS: Introduction - Sources of Stress – Consequences of Stress

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DMLand DCL
2	1	SQL In-Built Functions
3	1	SQL In-Built Functions
4	2	SET Operations
5	2	SET Operations
6	2	Joins
7	3	Views

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Views
9	3	PL/SQL Block
10	4	Functions Procedures
11	4	Packages
12	4	Packages
13	5	Triggers
14	5	Triggers
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode,strlen,streiv,str_word_count,strcmp,strcasecmp)
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode,strlen,streiv,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Form creation using POST method
9	3	Form creation using POST method
10	4	Database Operations
11	4	Database Operations
12	4	Login form
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19SCA51 : PYTHON PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	5	Find the greatest of three numbers.
2	6	Find the factorial of a number.
3	7	Generate n prime numbers.
4	8	Find the summation of series.
5	9	Find the factorial of a number using function.
6	10	Generate n prime numbers using function.
7	1	simple program

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	simple program
9	1	simple program
10	1	Generating different types of Chart.
11	1	Generating different types of Chart.
12	1	Generating different types of Chart.
13	2	Perform different types of manipulation using List.
14	3	String Manipulation.
15	4	Image Manipulation using Arrays.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>JCA601 : MINI PROJECT</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction about the Project
2	1	Title chosen- front end -backend languages are chosen Abstract-Preparation
3	1	First Review
4	2	Title Page
5	2	Bonafide Certificate
6	2	Project corrections
7	3	2nd Review

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Acknowledgement Table of content
9	3	Project updated
10	4	3rd Project review
11	4	Compiled and Run the project
12	4	Error identified- correction updated
13	5	Chapters of the Report References
14	5	Appendices, if any
15	5	final Review

**\*\* It is an auto generated report \*\***

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA510 : PROGRAMMING USING ASP.NET AND C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Dot Net:- Dot Net Framework
2	1	-CLR-MSIL-
3	1	JIT-Managed Code-Benefits of Dot Net.
4	2	C#.Net: Data types -Variables-Arrays-
5	2	Properties-Namespace-
6	2	Methods-Interface-Delegation.
7	3	Difference between Asp and Asp.net-Architecture of Asp.net

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	-Execution model-Difference between Code Behind and aspx file
9	3	-Implementation of simple web application.
10	4	Controls in C#: Button-Textbox-Timer-
11	4	PictureBox-RadioButton-Menu.
12	4	Web Controls: AdRotator-Validation-Calendar .
13	5	ADO.Net Objects Model – Architecture of ADO.NET-
14	5	Working with Grid control-
15	5	Working with Crystal Report Viewer control.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	WINDOWS APPLICATION: how to create a windows form add tools and its control
2	1	WINDOWS APPLICATION: To develop simple student bio data
3	1	WINDOWS APPLICATION: Create a color chooser using standard control.
4	2	CONSOLE APPLICATION jagged array. namespace
5	2	WINDOWS APPLICATION: To develop Notepad Application.
6	2	CONSOLE APPLICATION delegate interface
7	3	WINDOWS APPLICATION: Login Form Creation using MS Access.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	WINDOWS APPLICATION: Login Form Creation using MS Access.
9	3	WEB APPLICATION: Create an application to sending a request from one page to another using session.
10	4	WEB APPLICATION: Create a simple website for an organization using Master Page.
11	4	WEB APPLICATION: Create a simple website for an organization using Master Page.
12	4	WEB APPLICATION: Different types of Validation control
13	5	WEB APPLICATION: To develop database application for student mark list processing using validation control (Oracle)
14	5	WEB APPLICATION: To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
15	5	WEB, CONSOLE and WINDOWFORMS APPLICATION Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper)
3	1	String Functions: ucfirst,ucwords,strops,substr,chartocode,)
4	2	String Functions: strlen,strev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function
7	3	floor,pow,round,rand,sqrt,max,min,hexdec.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time functions:-
9	3	strtotime,mktime,data_default_timezone_set.
10	4	Create a Home Page using PHP and validating the form using javascript.
11	4	. Form creation using POST method
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CAP506 : PRACTICAL VI - PROGRAMMING IN ASP.NET USING C-SHARP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Programs using controls in C#.
2	1	Programs using Button.
3	1	Programs using Textbox.
5	2	Program using Timer Control.
6	2	Create a color chooser using standard control.
7	3	Program using PictureBox.
8	3	To develop Notepad Application.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Program for Database Connection.
12	4	Create an application to sending a request from one page to another using session.
4	2	WINDOWS APPLICATION: To develop simple student bio data
10	4	Login Form Creation using Ms Access.
11	4	WEB APPLICATION: Simple Programs using Web Application.
13	5	Create a simple website for an organization using Master Page.
14	5	To develop database application for student mark list processing using validation control (Oracle)
15	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19SCA51 : PYTHON PROGRAMMING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Python Program to add two numbers
2	1	Python Program for arithmetic operation.
3	1	Find the greatest of three numbers.
4	2	Find the factorial of a number.
5	2	Generate n prime numbers.
6	2	Find the summation of series.
7	3	Find the factorial of a number using function.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Generate n prime numbers using function.
9	3	Generating different types of Chart.
13	5	Python program to sort list in ascending order and descending order.
14	5	String Manipulation.
15	5	Image Manipulation using Arrays.
11	4	Perform different types of manipulation using List.
12	4	Python program to remove item from list.
10	4	Generate Scatter chart and Subplot chart.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>CA615A : OPERATING SYSTEMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction:History of Operating system - Operating system functions –Definition of Operating System–Different services of the operating system
2	1	Uses of System Calls –User's view of the operating system –The Macro Facility –GUI –The Kernel –Booting
3	1	Information Management (IM) –File system– Disk space allocation method–Directory structure.
10	4	GUI: – Components of GUI – Requirements of Windows based GUI
11	4	Security Protection: Threats – Attacks – Worms – Virus
4	2	Process Management: Inter-process communication.
5	2	Dead Lock - Dead Lock prerequisites.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	2	Dead Lock Strategies.
7	3	Memory Management: - Single Contiguous – Fixed Partitioned.
8	3	Variable Partitions – Non-Contiguous allocations.
9	3	Paging – Segmentation - Virtual Memory Management Systems.
12	4	Design principles – Authentication – Protection mechanisms – Encryption.
13	5	Unix OS: Overview of Unix-Unix File System: Users View of File System-Types of Files.
14	5	Internals of File System: Logical Layout of the File-The Super Block-Structure of inode-Address Translation-run-Time Data Structure for File system: UFDT-File Table-Inode Table.
15	5	System Calls: Open-Read-Write-Random Seek-Close-Create a File-Unlink a File-Change Directory. Basic Commands in Unix.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDHYALAKSHMI R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>ECA616T : SOFTWARE ENGINEERING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Evolving Role of Software-Characteristics of Software
2	1	-Software Myths-Process Models: Waterfall Model
3	1	Evolutionary Process Models-Requirement Engineering: Tasks
4	2	Initiating the Requirements Engineering Process
5	2	- Eliciting Requirements-Requirement Analysis - Data Modeling
6	3	Flow Oriented Modeling –
7	3	Class Based Modeling – Creating a Behavioral Model.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	- Software Testing strategies
9	4	-White Box Testing
10	4	Basic Path- Control Structure
11	4	- Black Box Testing
12	5	Project Management: Management Spectrum
13	5	- Formal Technical Reviews
14	5	Software Change Management Process
15	5	- Clean Room S/W Engineering Specification-Design and Testing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JUSTIN MARSHALL C	Academic Year	2022-2023
Department	Computer Applications	Semester	6
Subject	CA614Q : OPEN SOURCE TECHNOLOGY (PHP)	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASICS OF PHP:-History of php-Language basics:-Lexical structure-Data types- variables-Expressions and operators
2	1	flow control statements:if,if-else,while,do-while,switch,for,foreach-Functions:defining functions-variable scope(global and local variables)-
3	1	function parameters: call by reference-call by value-return values: return single value, multiple value-handling missing parameters-default parameters.
4	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strev,str_word_count, strcmp, strcmp.
5	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.
6	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword- constructor.
7	3	BUILT IN FUNCTIONS IN PHP: Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime. Handling
9	3	Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
10	4	Handling Web Pages: HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox- select-radiobutton-button-fileupload button-file download.
11	4	Javascript –Javascript basics –validating forms.
12	4	Handling Session and Cookies: Global variables:-\$_Globals, \$_Server, \$_request,\$_Post, \$_files, \$_Cookies, \$_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table-
14	5	Inserting data into the database-Updating databases-
15	5	Deleting records- Accessing the database records from PHP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DDL,DMLand DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Views
5	5	Joins
6	6	Sub Queries
7	7	PL/SQL Block

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Procedures
9	9	Functions
10	10	Packages
11	11	Triggers
12	12	Cursor
13	13	Model Practical exam
14	14	Model Practical exam
15	15	Model Practical exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JUSTIN MARSHALL C	Academic Year	2022-2023
Department	Computer Applications	Semester	6
Subject	CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP	Course	Computer Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	String Functions: ( trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartoc ode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	3	Arrays
6	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
7	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Create a Home Page using PHP and validating the form using javascript.
9	6	Form creation using POST method
10	7	Database Operations
11	7	Database Operations
12	8	Login form
13	9	Student mark list creation
14	9	Student mark list creation
15	10	Electricity bill preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE JECINTHA I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>CAP505T : PRACTICAL - V RDBMS - ORACLE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Simple Queries using DDL,DML and DCL
2	4	SQL In-Built Functions
3	4	SET Operations
4	4	Views
5	4	Joins
6	4	Sub Queries
7	5	PL/SQL Block

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Procedures
9	5	Functions
10	5	Packages
11	5	Packages
12	5	Triggers
13	5	Triggers
14	5	Cursors
15	5	Cursors

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE JECINTHA I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>5</b>
Subject	<b>19CA509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction :Database system applications – Purpose of database systems – View of data : Data Abstraction – Instances and Schemas
2	1	Data Models – Database Languages: Data Manipulation Language – Data Definition Language - Data storage and querying: Storage Manager
3	1	The query processor – Database architecture- Database users and administrators: Database Users and User Interfaces – Database Administrator.
4	2	The Entity-Relationship Model: Entity sets – Relationship sets – Attributes
5	2	Constraints : Mapping Cardinalities - Keys – Entity Relationship Diagrams : Basic Structure of E-R Diagram
6	2	Mapping Cardinality in E-R diagram – Complex Attributes – Roles – Non Binary Relationship sets – Weak Entity sets.
7	3	Relational database design: First normal form – Decomposition using functional dependencies: Keys and functional dependencies

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Boyce Codd normal form – Third normal form
9	3	Decomposition using Multivalued dependencies: Multivalued dependencies – Fourth normal form.
10	4	Introduction to Oracle SQL: DDL,DML,DCL,TCL-Integrity Constraints
11	4	Built-in- functions: Character functions – number functions – Date functions- Conversion functions - Aggregate functions
12	4	SET operations – Grouping and ordering data – Joins - Subqueries – Views
13	5	Introduction to PL/SQL: PL/SQL blocks – Explicit Cursors
14	5	Exception handling section – Procedures
15	5	Functions – Packages – Triggers.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>6</b>
Subject	<b>GCA63A : TECH-EMPOWERMENT ENGLISH TRAINING</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Building Vocabulary Parts of Speech
2	1	Parts of Speech
3	1	Sentence Formation Phonetic Sounds
4	2	Listen and Repeat Situational Writing
5	2	British/ American English Introduction, Use , Difference
6	3	Reading & Listening Comprehension American & British Conversation
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Situational Speaking Public Speaking
9	4	Debate Group Discussion
10	4	Group Discussion
11	5	Book Review
12	5	Interview Skills
13	5	Mock Interview
14	5	II CIA Exam
15	5	Revision & Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHNBOSCO A Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Bank Management</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANIN -KODUGAL ILLA VARAIPADAM
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthogai noolgal
2	1	Pura nanooru 50,182
3	1	Aha nanooru 105,154
4	1	Kurunthogai 25,53
5	1	Natrinai 01,172
6	1	Kalithohai 111,133
7	3	Koodavozhukkam 1-10 Avayarithel 1-5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Avayarithel 6-10 Pazhimai 1-10
9	4	Pathnen keezh kanakkil neethi noolgal
10	4	Pathu pattu
11	2	Nedunal vadai
12	2	Porunaratrau padai
13	2	Mullai pattu 24-79
14	2	Mathurai kanji 500-526
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to Instructions Pair work and small group work
2	1	Linking words Small group discussions
3	2	Skimming and Scanning Checking Facts and Opinions
4	2	Product Description
5	3	Listening to Lectures
6	3	Role Play
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening Comprehension One word Substitutes
9	4	Modals Definitions
10	5	Listening to interviews of specialists Negotiation and Mind mapping
11	5	The Merchant of Venice Note Making
12	5	Developing Story from Pictures Creative writing
13	5	Significance of Written communication in business
14	0	II CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny
2	1	All the World's a Stage Never Never Nest
3	1	Never Never Nest
4	5	Report Writing Note Making
5	2	Communication Skills (1-4)
6	2	Communication Skills (5-8)
7	2	Communication Skills (9-12)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	I CIA
9	3	Malala Yousufzai
10	3	Monkey's Paw
11	3	The Gift of the Magi
12	4	Interpersonal Communication skills (1-3)
13	4	Interpersonal Communication skills (4-6)
14	4	Interpersonal Communication skills (7-9) Unit 5 - Publicity Literature
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARATHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARATHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>3</b>
Subject	<b>ASBM301A : BUSINESS STATISTICS</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data
2	1	Classification and Tabulation of Statistical data.
3	1	Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation
5	2	Mean Deviation, Standard Deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods
7	3	Correlation: Karl Pearson's coefficient of correlation



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient and Concurrent deviation method.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers
11	4	Simple Aggregative Method – Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices
12	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test
13	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method,
14	5	Moving Average Method (problems up to 5 yearly) – Least Square Method (Fitting of straight line).
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>BM408Q : BANKING LAW AND PRACTICES</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bank –Meaning, Definition, Origin of banks, Classification, Banking system, types of banks and their functions and Services- Commercial Banks - Universal Banking .
2	1	Central Bank – Features of Central Bank – Evolution of Central Bank – Need for a Central bank – Functions of Central bank.
3	1	Credit control measures – Types of credit control – Objectives of credit control – EXIM Bank - Deposit Insurance and Credit Guarantee Corporation.
4	2	Introduction – Features of a Negotiable instrument – Negotiability – Transferability - Cheque - Essentials of a Cheque
5	2	Crossing of a Cheque - General Crossing - Special Crossing - Payment of Cheque – Duties & Responsibilities of a Paying Banker – Obligation of a Paying banker to honour cheques
6	2	Conditions for dishonor of a cheque by a Paying banker - Collection of Cheque- Duties of a Collecting Banker - Endorsement - Debit Card – Credit Card - Green Card - Smart Card.
7	3	Banker - Customer - General and Special relationship between Banker and Customer – Duties of a Banker – Duty to honour customer's cheque.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Duty to maintain secrecy of Customer's account - Rights of a Banker – Right of set off – Right of lien – Special features of Banker's Lien .
9	3	Opening of Current - Saving - Recurring - Fixed deposit Accounts - Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions..
10	4	National Bank for Agricultural and Rural Development (NABARD) - Objectives - Features - Functions – Milestones of NABARD's activities – Impact of NABARD.
11	4	Co-operative Banks – Meaning & Definition – Co – Operative principles – Features of Co – Operative Bank – Structure of Co – operative banking .
12	4	Regional Rural Banks (RRBs) – Ownership of RRBs – Objectives – Features – Functions - Contribution to social and rural development - Micro Credit(SHG) – Origin of Micro Credit - Advantages.
13	5	E-Banking – Features – Importance – Services - Internet Banking –Services – Advantages – Dis – Advantages - Telephone Banking - Meaning & Definition – Features – telephone Banking system – Drawbacks.
14	5	Mobile Banking- Meaning & Definition – Advantages & Dis – advantages – Services – Features - ATMs – Features – ATM Types – ATM Mechanism ATM functions - Cash Machine - Electronic Money – Categories – merits Electronic Fund Transfer Sys...
15	5	Indian Financial Network - Customer Grievances Redressal and Ombudsman – Procedure for redressal of Grievance - core banking system – Features – Advantages - Electronic Clearing Services (ECS) – Features – Benefits - Limitations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Bank Management</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>GBM42A : ENGLISH FOUNDATIONAL COURSE FOR BANK EXAMINATIONS</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit – I Knowledge 1. Parts of Speech 2. Sentence Structure
2	1	3. Answering a Passage 4. Fill In the Blanks (American Words, Grammar, Homophones)
3	2	Unit – II Understanding 1. Error Spot 2. Odd One Out
4	2	3. Phrase Replacement 4. Sentence Connector Unit
5	3	Unit – III Skill/ Ability 1. Cloze Test 2. Sentence Rearrangement
6	3	3. Double Filters 4. Reading Comprehension
7	3	CONDUCT OF I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Unit – IV Writing 1. Word Association
9	4	2. One Word Substitution 3. Verbal Ability
10	4	4. Writing Skill with Expressions.
11	5	Unit – V Creative Technique 1. Multiple Meaning
12	5	2. Miscellaneous 3. Sentence Improvement
13	5	4. Mock Interview
14	5	CONDUCT OF II CIA
15	5	REVISION OF ALL THE 5 UNITS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAVENI R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>6</b>
Subject	<b>18EBM606 : SERVICES MARKETING</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Services Marketing - meaning and definition, Types and Significance of Services Marketing
2	1	Nature and Characteristics of services, Meaning of Market segmentation – Process of Market segmentation
3	1	Designing the services Blueprint - Stages and uses of service Blue print
4	2	Marketing of services with special reference to Financial services- Concept - Features and market mix of Banking services
5	2	Features and Marketing mix of Insurance, Lease and Mutual Fund services
6	2	Features and marketing mix of Factoring, Portfolio and financial intermediary services
7	3	Characteristics of hospitality services , Features and marketing mix of Tourism services



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Characteristics and marketing mix of Hotel and Travel services - Airlines services
9	3	Characteristics of Railway, Passenger and Goods Transport and Leisure services.
10	4	Meaning and Marketing of Non-Profit Organisations
11	4	Characteristics of miscellaneous services and Power and Telecommunication
12	4	Services offered by charities and Educational service
13	5	Marketing mix in services marketing - The seven P's –Product decisions
14	5	Pricing strategies and Promotion of Services
15	5	Distribution Methods for Services –Internet as a service channel.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>5</b>
Subject	<b>18EBM504 : INTERNATIONAL BANKING</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	International Banking: Meaning & Definition - International Banking vis-a-vis Domestic Banking -
2	1	Financing International Trade - Types - Pre-shipment and Post-shipment finance - Factoring - Forfaiting
3	1	Letter of Credit - Types of documentary letter of credit - International Financial Transactions: Lending and Borrowing across borders.
4	2	Foreign Exchange: Market; - Meaning & Definition - rate and Currency – Exchange rate determination under Fixed exchange rate
5	2	Floating exchange rate regimes – Determination of exchange rates: Spot and Forward – Types of transactions.
6	2	Purchasing power parity theory - Basic exchange arithmetic – Forward Cover and Hedging.
7	3	International Financial Institutions - Meaning - World Bank: IMF - Objectives - Goals - Functions.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Asian Development Bank – Organization - Functions International Financial Corporation - Organizations - Functions .
9	3	International Development Association - Aim - Organization - Functions - Sources of funds
10	4	Source of Foreign Exchange: Export Earnings – Invisible Export Earnings – Role of NRI Remittances .
11	4	Foreign Direct Investment – Meaning - Types of FDI - Benefits - Limitations - Foreign Institutional Investment - Advantages - Limitations
12	4	External Commercial Borrowings – Global Depositors Receipts – Types of GDRs - Offshore Borrowings. - Benefits - Limitations.
13	5	Foreign Exchange Management: Composition of Foreign Exchange Reserves - Objectives - Features - Provisions - Foreign Currencies
14	5	Gold and SDR – Current Account Convertibility - Restrictions on Current account transactions - Advantages -
15	5	Capital Account Convertibility - Meaning - Advantages - Limitations - precautions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAVENI R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>BM203Q : FINANCIAL ACCOUNTING - II</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Average Due Date-meaning of Average due date-Uses of Average due date-
2	1	Basic problems in average due date-calculation of interests
3	1	Account current-counting of days -methods of calculating interests-simple problems.
4	2	Branch – meaning - Types of branches - Department branches – difference between branch and Department
5	2	Problems on Preparation of trading account of branches under debtor system and whole sale branch system
6	2	Stock debtors system and and Final account systems.
7	3	Departmental Accounts: Introduction – Allocation of expenses – Calculation department purchase

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	problems on Interdepartmental transfers at cost price and at Selling price
9	3	Preparation of trading and Profit & Loss account of the department.
10	4	Theory on Admission And Retirement Of Partners
11	4	Accounting Treatments of Admission of partner and Retirement of partner -Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
12	4	Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
13	5	Dissolution of firm – Modes of dissolution – insolvency of a partner - Garner Vs Murray rule
14	5	Problems on Insolvency of all partner – Piecemeal distribution (simple Problems)
15	5	proportionate capital method-Maximum loss Method (simple problems)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>19BM101 : PRINCIPLES OF MANAGEMENT</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Management - Definition & Meaning of management-Functions of Management - Importance - levels of management .
2	1	Roles of manager - Qualities of a Leader - Management as a Science or Art - Management as a Profession.
3	1	Contribution to management by F.W.Taylor, Henry Fayol, and Peter F. Drucker.
4	2	Planning - importance - Process of planning - types of planning - Advantages - Disadvantages.
5	2	planning methods Objectives- Policies- Types of Policies - Procedures - Strategies & Programmes - Types of Programmes.
6	2	Obstacles to effective planning. Decision making - Importance - Steps – Types - Advantages - Limitations.
7	3	Organization - Importance - Types of Organization - Principles of Organizing

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Delegation & Decentralization – Methods - Advantages - Limitations - Departmentation - Importance - Advantages - Limitations.
9	3	Span of Management. - Importance - Organizational structure - Characteristics - Importance - Types - line & staff and functional.
10	4	Directing - Meaning & Definition - Function of directing - Advantages & Limitations - Motivation - Meaning & Definition - Importance - Types of Motivation.
11	4	Theories of motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques.
12	4	Leadership – Characteristics - Functions or Role of a Leader- Leadership styles – Theories of Leadership.
13	5	Co-ordination – Characteristics – Elements – Types – Principles – Techniques – Co-ordination Vs Co- operation- Benefits – Problems.
14	5	Control- Characteristics- Types – Steps- Advantages- Limitations. Techniques of Control (Traditional techniques, Modern techniques - Budgetary Control,
15	5	Break- Even Point (BEP)Analysis- Return On Investment Control- Responsibility Accounting – Network Techniques – PERT and CPM)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>19BM204 : BUSINESS CORRESPONDANCE</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Correspondence – Need – Functions – Kinds of Business Letters –Need for a business letter – Functions of Business Letter .
2	1	Classification of Letters- Formal and informal letters - Essentials of an Effective Business Letter – Guidelines for effective business Correspondence
3	1	Layout – General Precautions – Different models of Letterhead – Features in the layout of a Business letter.
4	2	Business enquiries and replies – Different kinds of enquiry letters – Features of an enquiry letter – Different types of letters of enquiry - Credit and status enquiries.
5	2	Guidelines to be followed in status enquiry letters - Placing orders – Essential elements in a business order - Sales letters – Features of a sales letter – Model sales letter .
6	2	Collection letters – Features of a collection letter – Model Collection letters. Applications for employment - References - Letters of appointment - Confirmation – Promotion.
7	3	Bank Correspondence – Essential features of Bank Correspondence – Letter from Consumers to Bank – Model letters from Bank to customer – Correspondence within the bank.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Insurance Correspondence – Specific terms used in Insurance Correspondence – Special kinds of Insurance – Kinds of Life Policies, Marine Policies .
9	3	Agency Correspondence – Terms used in connection with the agents – Model letters between an Agent and his Principal - Correspondence with Shareholders, Directors.
10	4	Reports Writing – Kinds of reports – Guidelines to be followed to make a report effective - Agenda, Minutes of Meeting – Objectives of meetings .
11	4	Classification of Meetings - Agenda for a business in modern times – Model letters on meeting, agenda and minutes .
12	4	Memorandum – Features of a memorandum report - Office Order – Circular – Notes.
13	5	SMS – Merits & De – Merits - Email– Uses – Merits & De – Merits - Video Conferencing.
14	5	Types of video – conferencing - Internet– Uses – Merits and de – Merits
15	5	Mobile Communication – Websites and their use in Business.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Bank Management	Semester	1
Subject	LTC101A : TAMIL - I	Course	Bank Management

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	ETTUTHOGAI NOOLGALIL..., PURANANOORU 50, 182 AAGANANOORU 105, 154
2	1	KURUNTHOGAI 25, 135 NATTRENAI 01, 172
3	1	KALITHOGAIYIL 111, 133
4	3	THIRUKKURALIL...,3 ATHIGARANGAL 30 KURATPAAKKAL 1.KOODA OZHUKKAM 2.AAVAIYARETHAL PAZHAIMAI
5	3	THIRUKKURALIL... ..PAZHAIMAI
6	4	ILLAKKIYA VARALARU ETTUTHOGAI NOOLGAL
7	4	ILLAKKIYA VARALARU PATHINEN KEZHKKANAKKIL NEETHI NOOLGAL



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPAATTU NOOLGALIL NEDUNELVAADAI 1-63 VAREGAL
9	2	PORUNERRATTRUPPADAI 42-78 VAREGAL
10	2	MULLAIPPAATTU 24-79 VAREGAL
11	2	MADURAIKKAANCHI 500-526 VAREGAL
12	4	ILLAKKIYA VARALARU PATHUPPAATTU NOOLGAL
13	5	MOZHITHIRAN KADETHAM VARAITHAL
14	5	NEER KAANEL PAYIRCHI
15	5	PANBALAI VAANOLI NIGAZHCHI THOGUPPU

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny - S.Radha Krishnan (Prose) All the World's a Stage - William Shakespeare ( Poetry) The Never Never Nest - Cedric Mount ( Play)
2	2	Understanding Communication Greeting and Introducing Making Requests
3	2	Agreeing and Disagreeing Seeking and Giving Permission Persuading and Debating
4	2	Sounds and Symbols in English Word and Sentence Stress Effective Use of Intonation
5	2	Telephone Manners in Business Situations Handling Customer Orders and Enquiries Handling Complaint Calls
6	5	Note - Making Report - Writing
7	0	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Gift of Magi - O'Henry ( Short Story) Malala Yousafzai Pakistani Activist - Naomi Blumberg ( Biography) The Monkey's Paw - W.W. Jacob ( One - Act Play)
14	0	II CIA Exam
15	0	Revision
9	4	Effective Listening Understanding the Audience
10	4	Perceptal Clarity Channel Awareness
11	4	Role of Non - Verbal Communication Pragmatics
12	4	Handling Delivery and After - Sales Problems Taking Part in Teleconferences
13	5	Tele - Interviews Publicity Literature ( Advertisements)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to Instructions Pair work and Small group work
2	1	Linking words Small group discussions
3	2	Skimming and Scanning Checking Facts and opinions
4	2	Product Description
5	3	Listening to Lectures
6	3	Role Play
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening Comprehension One word Substitutes
9	4	Modals Definitions
10	5	Listening to Interviews of Specialists Negotiations and mind mapping
11	5	The Merchant of Venice Note making
12	5	Developing story from pictures Creative writing
13	5	Significance of written communication in business
14	0	II CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARATHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARATHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Bank Management</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making request & responding to thanks
2	1	Prose : how to be doctor - Stephen leacock
3	2	Auguries of innocence -William Blake
4	2	Note making Use of wrong preposition Unnecessary use of article
5	3	My vision for India - A. p. J Abdul kalam
6	3	Asking giving for & refusing permission
7	3	ICIA The relationship between spelling & word



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Report writing Punctuation capital Poem IF Rudyard Kipling
9	4	One Act play. The merchant of Venice by William Shakespeare
10	4	Sentence transcription
11	4	Paragraph writing
12	4	Paragraph writing
14	5	IICIA Use of wrong tense
15	5	Revision
13	5	Biography -kiran bedi

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>PECM02A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT</b>	Course	<b>Bank Management</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Communicative competence Listening to talk (Ted) Small group discussion
2	1	Grammar & vocabulary excersise
3	2	Persuasive communication Speaking lectures just a minute
4	2	Reading text on advertisement
5	3	Digital competence Interview with subject speacility Creating vlogs
6	3	LSRW selected sample of webpage
7	3	I CIA Writing argumentation /persuasive essay

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Creativity & imagination Listening to short 5 to 20 minutes
9	4	Making oral presentation through short film
10	4	Essay on creativity & imagination
11	4	Basic script writing for short film
12	4	Creating web pages, blog ,flyers, broucher
13	5	Short accademic speech power point presentation
14	5	IiCiA Reading writing project Profile circular meeting minutes Writing on introduction parapharising
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>3</b>
Subject	<b>ASBM301A : BUSINESS STATISTICS</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data
2	1	Classification and Tabulation of Statistical data.
3	1	Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation
5	2	Mean Deviation, Standard Deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods
7	3	Correlation: Karl Pearson's coefficient of correlation



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient and Concurrent deviation method.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers
11	4	Simple Aggregative Method – Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices
12	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test
13	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method,
14	5	Moving Average Method (problems up to 5 yearly) – Least Square Method (Fitting of straight line).
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAVENI R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>ABM401A : TECHNOLOGY IN BANKING</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Evolution of Banking, Technological Impact in Banking Operations – Different approaches to Banking computerization
2	1	WAN, LAN, VSAT, Networking system and Single Window concept
3	1	Core Banking – Concept, Opportunities, Challenges & Implementation
4	2	Bank back office management , Data center Management
5	2	Knowledge Management (MIS/DSS/EIS) and treasury Management
6	2	Inter branch reconciliation, Treasury Management and Foreign Exchange Management
7	3	Meaning of E-Payment –Benefits of E-Payment- Components of Electronic System

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Debit and Credit Card system on the internet- Components of online credit processing- Fintec Companies.
9	3	Popular electronic payment methods-Electronic fund transfer – Electronic clearing system
10	4	Contemporary Issues in Banking Techniques:
11	4	Confidentiality and secrecy of data- Cyber crimes
12	4	Cyber crimes and Cyber laws and its implications
13	5	E-Payment Security: Meaning of E- Security - Security requirement in E-payment systems - Details of Security threats – Secured payments
14	5	E-Payment Security - E-Security Protection - Key Security schemes
15	5	AI and machine learning - Smart payments.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>BM408Q : BANKING LAW AND PRACTICES</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bank –Meaning, Definition, Origin of banks, Classification, Banking system, types of banks and their functions and Services- Commercial Banks - Universal Banking .
2	1	Central Bank – Features of Central Bank – Evolution of Central Bank – Need for a Central bank – Functions of Central bank.
3	1	Credit control measures – Types of credit control – Objectives of credit control – EXIM Bank - Deposit Insurance and Credit Guarantee Corporation.
4	2	Introduction – Features of a Negotiable instrument – Negotiability – Transferability - Cheque - Essentials of a Cheque
5	2	Crossing of a Cheque - General Crossing - Special Crossing - Payment of Cheque – Duties & Responsibilities of a Paying Banker – Obligation of a Paying banker to honour cheques
6	2	Conditions for dishonor of a cheque by a Paying banker - Collection of Cheque- Duties of a Collecting Banker - Endorsement - Debit Card – Credit Card - Green Card - Smart Card.
7	3	Banker - Customer - General and Special relationship between Banker and Customer – Duties of a Banker – Duty to honour customer's cheque.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Duty to maintain secrecy of Customer's account - Rights of a Banker – Right of set off – Right of lien – Special features of Banker's Lien .
9	3	Opening of Current - Saving - Recurring - Fixed deposit Accounts - Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions..
10	4	National Bank for Agricultural and Rural Development (NABARD) - Objectives - Features - Functions – Milestones of NABARD's activities – Impact of NABARD.
11	4	Co-operative Banks – Meaning & Definition – Co – Operative principles – Features of Co – Operative Bank – Structure of Co – operative banking .
12	4	Regional Rural Banks (RRBs) – Ownership of RRBs – Objectives – Features – Functions - Contribution to social and rural development - Micro Credit(SHG) – Origin of Micro Credit - Advantages.
13	5	E-Banking – Features – Importance – Services - Internet Banking –Services – Advantages – Dis – Advantages - Telephone Banking - Meaning & Definition – Features – telephone Banking system – Drawbacks.
14	5	Mobile Banking- Meaning & Definition – Advantages & Dis – advantages – Services – Features - ATMs – Features – ATM Types – ATM Mechanism ATM functions - Cash Machine - Electronic Money – Categories – merits Electronic Fund Transfer Sys...
15	5	Indian Financial Network - Customer Grievances Redressal and Ombudsman – Procedure for redressal of Grievance - core banking system – Features – Advantages - Electronic Clearing Services (ECS) – Features – Benefits - Limitations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>NBMBP401 : MODERN BANKING PRACTICES</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Introduction to Banker and Customer – Definition –
2	3	Types of bankers
3	3	Types of customers
4	3	Accounts of Individuals: Minor, Illiterate person, Joint Account.
5	3	Revision
6	3	Seminar
12	5	Real Time Gross Settlement (RTGS) - Seminar

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
13	5	Immediate Payment Service (IMPS).
14	5	Seminar
15	5	Revision
7	5	ATMs – Internet banking
8	5	Mobile banking – Debit cards
9	5	Credit Cards & Smart Cards
10	5	Electronic Payment Systems (EPS) – Magnetic Ink Character Recognition (MICR)
11	5	Electronic Clearing System (ECS) – Electronic Fund Transfer (EFT) – National Electronic Fund Transfer (NEFT)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SAVITHAMARY A	Academic Year	2022-2023
Department	Bank Management	Semester	4
Subject	AMBM401 : MATHS FOR COMPETITIVE EXAM	Course	Bank Management

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SET THEORY Basic concepts – Subsets –
2	1	Operations on sets Applications – Cartesian Product –
3	1	Relation – Properties of relation - Functions.
4	2	ANALYTICAL GEOMETRY Distance – Slope of a straight line –
5	2	Equation of Straight line – Interpretation
6	2	Break even analysis – Parabolas.
7	3	DIFFERENTIAL CALCULUS Limits – Continuity –



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Average & Marginal concepts – Differential coefficient concepts
9	3	Simple applications to Economics.
10	4	MATRICES Addition of matrices –Scalar multiplication
11	4	-Multiplication of a matrix by a matrix- Inverse of a matrix –
12	4	Solution of a system of linear equation –Input output Analysis.
13	5	COMMERCIAL ARITHMETIC Percentages –
14	5	Simple and Compound interests – Arithmetic Series
15	5	Geometric Series – Simultaneous Linear equations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>GBM42A : ENGLISH FOUNDATIONAL COURSE FOR BANK EXAMINATIONS</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Parts of Speech
2	2	Error Spot
3	2	Phrase Replacement
4	3	Sentence Rearrangement
5	3	Double Filters
6	3	Reading Comprehension
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	One Word Substitution
9	4	Verbal Ability
10	4	Writing Skills with Expression
11	5	Multiple Meaning
12	5	Sentence Improvement
13	5	Mock Interview
14	5	II CIA Exam
15	5	Revision & Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Bank Management</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>4</b>
Subject	<b>GBM42A : ENGLISH FOUNDATIONAL COURSE FOR BANK EXAMINATIONS</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit – I Knowledge 1. Parts of Speech 2. Sentence Structure
2	1	3. Answering a Passage 4. Fill In the Blanks (American Words, Grammar, Homophones)
3	2	Unit – II Understanding 1. Error Spot 2. Odd One Out
4	2	3. Phrase Replacement 4. Sentence Connector Unit
5	3	Unit – III Skill/ Ability 1. Cloze Test 2. Sentence Rearrangement
6	3	3. Double Filters 4. Reading Comprehension
7	3	CONDUCT OF I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Unit – IV Writing 1. Word Association
9	4	2. One Word Substitution 3. Verbal Ability
10	4	4. Writing Skill with Expressions.
11	5	Unit – V Creative Technique 1. Multiple Meaning
12	5	2. Miscellaneous 3. Sentence Improvement
13	5	4. Mock Interview
14	5	CONDUCT OF II CIA
15	5	REVISION OF ALL THE 5 UNITS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAVENI R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>6</b>
Subject	<b>18EBM606 : SERVICES MARKETING</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Services Marketing - meaning and definition, Types and Significance of Services Marketing
2	1	Nature and Characteristics of services, Meaning of Market segmentation – Process of Market segmentation
3	1	Designing the services Blueprint - Stages and uses of service Blue print
4	2	Marketing of services with special reference to Financial services- Concept - Features and market mix of Banking services
5	2	Features and Marketing mix of Insurance, Lease and Mutual Fund services
6	2	Features and marketing mix of Factoring, Portfolio and financial intermediary services
7	3	Characteristics of hospitality services , Features and marketing mix of Tourism services



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Characteristics and marketing mix of Hotel and Travel services - Airlines services
9	3	Characteristics of Railway, Passenger and Goods Transport and Leisure services.
10	4	Meaning and Marketing of Non-Profit Organisations
11	4	Characteristics of miscellaneous services and Power and Telecommunication
12	4	Services offered by charities and Educational service
13	5	Marketing mix in services marketing - The seven P's –Product decisions
14	5	Pricing strategies and Promotion of Services
15	5	Distribution Methods for Services –Internet as a service channel.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>5</b>
Subject	<b>18EBM504 : INTERNATIONAL BANKING</b>	Course	<b>Bank Management</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	International Banking: Meaning & Definition - International Banking vis-a-vis Domestic Banking -
2	1	Financing International Trade - Types - Pre-shipment and Post-shipment finance - Factoring - Forfaiting
3	1	Letter of Credit - Types of documentary letter of credit - International Financial Transactions: Lending and Borrowing across borders.
4	2	Foreign Exchange: Market; - Meaning & Definition - rate and Currency – Exchange rate determination under Fixed exchange rate
5	2	Floating exchange rate regimes – Determination of exchange rates: Spot and Forward – Types of transactions.
6	2	Purchasing power parity theory - Basic exchange arithmetic – Forward Cover and Hedging.
7	3	International Financial Institutions - Meaning - World Bank: IMF - Objectives - Goals - Functions.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Asian Development Bank – Organization - Functions International Financial Corporation - Organizations - Functions .
9	3	International Development Association - Aim - Organization - Functions - Sources of funds
10	4	Source of Foreign Exchange: Export Earnings – Invisible Export Earnings – Role of NRI Remittances .
11	4	Foreign Direct Investment – Meaning - Types of FDI - Benefits - Limitations - Foreign Institutional Investment - Advantages - Limitations
12	4	External Commercial Borrowings – Global Depositors Receipts – Types of GDRs - Offshore Borrowings. - Benefits - Limitations.
13	5	Foreign Exchange Management: Composition of Foreign Exchange Reserves - Objectives - Features - Provisions - Foreign Currencies
14	5	Gold and SDR – Current Account Convertibility - Restrictions on Current account transactions - Advantages -
15	5	Capital Account Convertibility - Meaning - Advantages - Limitations - precautions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bank Management</b>	Semester	<b>6</b>
Subject	<b>18BM602 : MANAGEMENT ACCOUNTING</b>	Course	<b>Bank Management</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management Accounting: Meaning –Definition –Objectives– Nature and Scope–Role of Management Accountant - Difference between Financial Accounting,
2	1	Cost Accounting and Management Accounting. Analysis of Financial Statements: Types of Analysis
3	1	Vertical and Horizontal–Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.
7	3	Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement -Limitations of Cash Flow Statement –Procedure for preparation of Cash Flow Statement (as per Accounting St...
8	3	Computation of cash flows from operating activities – When profit & Loss account alone is given – When profit and current assets and liabilities are given – When Balance sheet alone is given – When sundry details are given – Direct method and I...
4	2	Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations –Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios. (exclude using ratio to prepare Balance sheet)Profitability...
5	2	Gross profit Ratio – Operating Ratio – Operating profit Ratio – Expenses Ratio – Net Profit Ratio – EPS – Price earning ratio – Pay – out ratio – Interest cover ratio – Dividend yield ratio – Turnover or activity ratios – Stock t...

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	2	Debtors Turnover ratio – Creditors Turnover ratio – Working capital turnover ratio – Fixed assets turnover ratio – Capital turnover ratio – Solvency or financial ratio – Overall solvency – Short term solvency ratios or liquidity ratios – ...
9	3	Simple cash flow statements – Comprehensive cash flow statements – Cash flow statements of sole traders and partnership firms – With or without sale of fixed assets
10	4	Meaning and definition of budget-essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control
11	4	classification of budgets-on the basis of time-on the factors of production -on the basis of flexibility–on the basis of functions-zero based budgeting
12	4	advantages and limitations of budgetary control-preparation of production, sales, materials, material purchase, production cost, cash and flexible budgets
13	5	Capital Budgeting: Concepts – Nature – Advantages and Limitations – Ranking Investment Proposals
14	5	Pay Back Period, ARR, Pay Back and ARR methods , NPV, NPV & Profitability Index methods.
15	5	IRR, Discounted Pay – Back method , DCF & Traditional Methods and Present Value Index.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4,1 ETTUTHOGAI
2	1	1.1 PURANAANOORU - 30,182 1.2 AGANANOORU - 105,154
3	3	.3 KURUNTHOGAI - 25,53 1.4 NATRINAI - 01,172
4	1	1.5 KALITHOGAI - 111,133
5	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 1-6
6	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 6-11
7	3	THIRUKURAL 3.1.KOODA OLUKKAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 AVAI ARITHAL 3.3 PAZHAIMAI
9	4	4.1 PATHTHUPAATTU -AATRUPPADAI NOOLGAL
10	4	4.1 PATHTHUPAATTU - AGAM, PURAM
11	2	2.1 PATHUPPAATTU - NEDUNAL VAADAI 1-63
12	2	2.2 PORUNAR AATRUPPADAI - 42- 78
13	2	2.3 MULLAI PAATTU 24- 79
14	2	2.4 MATHURAI KAAANJI 500-526
15	5	MOZHI THIRAN 5.1 KADITHANGAL 5.2 NER KAAANAL 5.3 PANBALAI VANOLI NIGALCHI THOGUPPU 5.4 VADIKKKAIALAR SEVAI MAIYAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21AECM22 : BUSINESS ECONOMICS - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of Market- Classification of market Structure-.
2	1	Perfect Competition-Features-Price Determination under Perfect Competition.
3	1	Meaning of Firm & Industry- Equilibrium of Firm & Industry- Equilibrium of a Firm & industry in short period & long period- Time Element Theory.
4	2	Monopoly-Meaning-Features-Price Discrimination-Output Determination.
5	2	Monopolistic Competition-Features – Price & Output determination under Monopolistic Competition- Product Differentiation- Selling Cost .
6	2	Wastages of Monopolistic Competition-Oligopoly – Sweezy Model – Collusion and Price Leadership-Duopoly- Cournot Model
7	3	Marginal Productivity Theory of Distribution- Theories of Rent- Ricardian Theory of Rent



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Modern Theory of Rent - Quasi Rent.
9	3	Revision
10	4	Theories of Interest: Loanable Fund Theory, Liquidity Preference Theory.
11	4	Theories of Profit: Dynamic Theory, Uncertainty Theory and Innovation Theory
12	5	Capital Budgeting-Meaning-Definition-Features of Capital Budgeting.
13	5	Need for Capital Budgeting -Importance of Capital Budgeting – Forms of Capital Budgeting
14	5	Nature of Capital Budgeting Problem-Demand for Capital-Supply of Capital-Capital Rationing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAVARIMUTHU I Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM204A : PRINCIPLES OF MARKETING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Market- Meaning- Definition- Classification of markets. Marketing – Meaning, Definition, Evolution and Approaches.
2	1	Modern marketing concepts - 4 P's of Marketing Mix, 4 A's of Marketing and 4 P's of Modern Marketing Management - Meaning-Concepts - Role of Marketing in Economic Development.
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	Meaning- Features-Classification of products- Product Mix- Product Innovation-New Product Development- .
5	2	Product Life Cycle- Branding- Meaning- Advantages and Limitations.
6	2	Packaging – Meaning – Kinds – Labeling – Meaning- Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions Pricing Policies.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedure for price determination- Kinds of Pricing - revision.
9	3	Revision of 1,2 & 3 units
15	5	Revision of 4 & 5 units
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen.
11	4	Wholesalers – Types - Services rendered by wholesalers - Retailers- Types – Requisites – Services rendered by retailers.
12	4	Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
13	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
14	5	Advertising- Meaning and definition– Medias – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy – Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising - ...

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM101Q : FINANCIAL ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting-Introduction-Meaning and Definition - Types of Accounting-Accounting concepts and Conventions- Double Entry System- Accounting Rules- Journal-ledger
2	1	- Subsidiary Books Trail Balance- Preparation of Profit and loss A/c.
3	1	Balance Sheet- Advantages and disadvantages of Accounting- Uses of Financial Statement-Accounting of sole trading concern and non-trading concern.
4	2	Single Entry System- Meaning and Definition- Preparation of Trading profit and loss A/c.
5	2	statement of affairs - Net worth Method- Conversion Method- Difference between Single Entry
6	2	System and Double Entry System- Difference between Balance Sheet and Statement of Affairs.
7	3	Accounting for Non-trading concerns- Meaning and Definition of Income, Expenditure, General and Special Funds.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet.
9	1	Revision
15	4	Revision
10	4	Consignment- Meaning- Accounting for consignment transaction- stock valuation
11	4	preparation of consignment A/c- Normal loss and abnormal loss calculation.
13	5	Journal entries for Joint Venture transactions when separate book for joint venture is maintained- (Recording Joint venture transactions in own books is Excluded).
14	5	Journal entries for Joint Venture transactions when separate book for joint venture is maintained- (Recording Joint venture transactions in own books is Excluded).
12	4	preparation of consignment A/c- Normal loss and abnormal loss calculation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM203T : FINANCIAL ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Average Due Date-Meaning and uses of Average Due Date, Basic types of problems in average due date,
2	1	Calculation of interest. Account current- Meaning, Counting of days, Methods of
3	1	calculating interest and Simple problems.
4	2	Branch – Meaning, Types of branches, Dependent branches, Accounting in respect of dependent branches ,Debtor system ,
5	2	When goods are invoiced at cost price and selling price Stock and Debtors system, Whole sale branch system and Final account system ,
6	2	When goods are invoiced at cost price and selling price.
7	3	Meaning of departments and departmental accounting ,Difference between branches and departments , Departmentalization of expenses,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Interdepartmental transfers at cost price and selling price, Preparation of departmental trading and Profit& Loss account.
9	3	Revision
15	5	Revision
10	4	Accounting Treatments-Admission of partner,
11	4	Retirement of partner. Death of partner.
12	4	Adjustments regarding Profit sharing ratio, Goodwill and Capital (simple problems).
13	5	Dissolution of firm- Meaning and Modes of dissolution, Insolvency of a partner,
14	5	Garner Vs. Murray rule. Insolvency of all partners, Piecemeal distribution, Proportionate capital method, Maximum loss Method (simple problems).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM102T : BUSINESS ORGANISATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business – Meaning – Characteristics - Objectives - Criteria for Success in Modern Business
2	1	Classification of Business-Profession - Meaning-Distinction between Business and Profession - Social Responsibility of Business
3	2	Sole Trader – Partnership firm - concepts of Limited Liability Partnership firm,
4	2	Cooperative Societies - Joint Stock Company – Definition – Meaning – Characteristics – Advantages – Limitations
5	2	One Man Company- Virtual Organization- Private and Public Limited Company – Government Companies – Public Utilities
6	3	Meaning - Theories of Location - Factors Influencing Location - Plant Layout-Definition
7	3	Plant Layout - Meaning – Objectives - Characteristics of Good Layout

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Size of Firm- Meaning - Concept of Size - Measures of Size
9	3	REVISION UNITS I, II, III
10	4	Definition - Meaning – Advantages and Limitations – Types of Combination
11	4	Chamber of Commerce – Meaning - Advantages and functions – Trade Associations – Features and functions
12	5	Definition - Distinction among IC, MNC, GC and TNC - Characteristics of MNC's
13	5	cultural impact of MNC's. Factors contributed for the growth of MNC's – Advantages and Disadvantages of MNC's
14	5	Control over MNC's – Organization Design and Structure of MNC, s – Relationship between Headquarters and Subsidiaries – MNC's in India
15	5	REVISION UNITS IV, V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI C
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANGEL W	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	LEC101A : COMMUNICATIVE ENGLISH - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	12	Character is Destiny- S. RADHA KRISHNAN Understanding Communication
2	2	Greeting and Introducing Making Requests Agreeing and Disagreeing
3	12	All the world's a stage Seeking and Giving Permission Persuading and Debating
4	2	Sounds and Symbols in English Word and Sentence Stress Effective use of Intonation
5	2	Telephone manners in Business Situations Handling customer orders and enquiries Handling Complaint calls
6	15	The Never Never Nest-Cedric Mount Note-Making Report-Writing
7	125	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Publicity Literature
9	4	Effective Listening Understanding the Audience Perceptual Clarity
10	4	Channel Awareness Role of Non-Verbal Communication
11	4	Pragmatics Handling Delivery and After -Sales problems
12	4	Taking part in Teleconferences Tele- Interviews
13	3	The Gift of the Magi- O Henry Malala Yousafzai
14	3	The Monkey's Paw- W.W. Jacob
15	345	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KIRUTHIKA S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Economics-Meaning -Definition-Nature& Scope of Business Economics.
2	1	Relationship of Business Economics and other disciplines-Objectives of Business Firm-Business Decision Making Process.
3	2	Demand –Meaning-Definition-Factors Influencing Demand.
4	2	Law of Demand – Exceptions to the Law of Demand .
5	2	Elasticity of Demand –Importance of Elasticity of Demand-Types of Elasticity of Demand.
6	3	Demand Forecasting -Meaning-Objectives of Demand Forecasting-Types of Forecasting.
7	3	Methods of Demand Forecasting-Survey method-Consumer survey Method-Expert opinion method- Statistical Methods-Trend Projection.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Criteria of a good forecasting method-Forecasting Demand for New Products.
9	4	Introduction-Factors of Production-Production Function .
10	4	Importance of Production Function –The Cobb-Douglas Production Function.
11	4	The Law of Variable Proportions – The Law of Returns to Scale.
12	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost-Total Cost- Total Fixed Cost, and Total Variable Cost.
13	5	Relationship between Average cost & Marginal cost-U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21AECM22 : BUSINESS ECONOMICS - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of Market- Classification of market Structure-.
2	1	Perfect Competition-Features-Price Determination under Perfect Competition.
3	1	Meaning of Firm & Industry- Equilibrium of Firm & Industry- Equilibrium of a Firm & industry in short period & long period- Time Element Theory.
4	2	Monopoly-Meaning-Features-Price Discrimination-Output Determination.
5	2	Monopolistic Competition-Features – Price & Output determination under Monopolistic Competition- Product Differentiation- Selling Cost .
6	2	Wastages of Monopolistic Competition-Oligopoly – Sweezy Model – Collusion and Price Leadership-Duopoly- Cournot Model
7	3	Marginal Productivity Theory of Distribution- Theories of Rent- Ricardian Theory of Rent

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Modern Theory of Rent - Quasi Rent.
9	3	Revision
10	4	Theories of Interest: Loanable Fund Theory, Liquidity Preference Theory.
11	4	Theories of Profit: Dynamic Theory, Uncertainty Theory and Innovation Theory
12	5	Capital Budgeting-Meaning-Definition-Features of Capital Budgeting.
13	5	Need for Capital Budgeting -Importance of Capital Budgeting – Forms of Capital Budgeting
14	5	Nature of Capital Budgeting Problem-Demand for Capital-Supply of Capital-Capital Rationing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM102T : BUSINESS ORGANISATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business – Meaning – Characteristics – Objectives.
2	1	Criteria for Success in Modern Business – Classification of Business.
3	1	Profession – Meaning, features -Distinction between Business and Profession.
4	1	Social Responsibility of Business – meaning, responsibility of business towards stakeholders.
5	3	Location of Industry- Meaning - Theories of Location - Factors Influencing Location
6	3	Plant Layout-Definition - Meaning – Objectives
7	3	Characteristics of Good Layout.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Size of Firm- Meaning - Concept of Size - Measures of Size.
9	3	Revision of 1st & 3rd units.
10	4	Business Combination: Definition - Meaning – Advantages and Limitations.
11	4	Types of Combination – horizontal, vertical and lateral.
12	4	Types of Combination – diagonal and circular.
13	4	Chamber of Commerce – Meaning – Advantages and functions.
14	4	Trade Associations – Features and functions.
15	4	Revision of 4th unit.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANDREWS F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM102T : BUSINESS ORGANISATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of Business Meaning Characteristics - Objectives of business Economic Objectives, Social Objectives, Human Objectives, National Objectives - Criteria for Success in Modern Business – Classification of Business-
2	1	Industry- On the basis of type of goods produced:, Trade meaning classification of trade Profession - Meaning- Distinction between Business and Profession
3	2	Social Responsibility of Business Need for social responsibility, responsibility of Firm, responsibility towards share holder responsibility to the society responsibility towards the customer .
4	2	Sole Trader – Partnership firm - concepts of Limited Liability Partnership firm Cooperative Societies - Definition – Meaning – Characteristics – Advantages – Limitations .
5	2	Joint Stock Company – Definition – Meaning – Characteristics – Advantages – Limitations -One Man Company-
6	2	Virtual Organization- Private and Public Limited Company – Government Companies – Public Utilities Meaning - Theories of Location
7	3	- Factors Influencing Location - Plant Layout-Definition - Meaning – Objectives - Characteristics of Good Layout

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Size of Firm- Meaning - Concept of firm Size of firm Measures of size.
9	3	I CIA EXAMINATION
10	4	Business combination introduction, meaning and Definition, Advantages and limitations of business combination. Types of business combination
11	4	Chamber of commerce, meaning Advantages and limitations of chamber of commerce, Functions. Trade association meaning features of trade association
12	5	Trade association Functions Unit 5 Multi corporation introduction meaning concept, differences between IC MNC,TNC,GC. Characters of MNC Culture.
13	5	Impact of MNCs factors contributing of MNCs Advantages and disadvantages of MNCs, Control over MNCs
14	5	Organization and design of MNCs , Structure of MNCs. Relationship between Headquarters and subsidiaries of MNC. MNCs in india
15	5	II CIA EXAMINATION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	2
Subject	CM204A : PRINCIPLES OF MARKETING	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Market: Meaning , Definition - Classification of Markets. Marketing : Meaning - Definition - Evolution - Approaches.
2	1	Modern Marketing Concepts - 4P's Marketing Mix, 4A's Marketing and 4P's of Modern Marketing Management-Meaning- Concepts.
3	1	Role of Marketing in Economic Development.- Market Segmentation - Definition - Requirements - Bases for Market Segmentation. Meaning - Features -
4	2	Classification of Products - Product Mix - Product Innovation - New Product Development - Product Life Cycle.
5	2	Branding: Meaning - Advantages and Limitations. Packaging: Meaning - Kinds of packaging
6	2	Labeling: Meaning - Advantages And Limitations. - Price - Meaning - Pricing -Importance. kinds of pricing.
7	3	Objective - Factors affecting pricing decisions - Pricing Policies.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedure for price determination - Kinds of Pricing.
9	3	Revision of 1,2 & 3 units
10	4	Meaning - Importance - Marketing and Distribution - Middlemen in Distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen.
11	4	Wholesalers - Types - Services Rendered by Wholesalers - Retailers - Types - Requisites - Services Rendered by Retailers -
12	4	Introduction to Supply Chain and Logistics Management - Introduction to Networking Marketing and Niche Marketing.
13	5	Sales Promotion - Personal Selling - Meaning - Purpose - Types - Advantages - Limitations - Factors to be considered on Personal Selling. Advertising - Meaning and Definition - Medias - Advantages - Limitations -
14	5	Advertising Copy - Definition - Elements of Advertising Copy - Introduction to Cinema Advertising, Social Media Advertising, Web Advertising and Mobile Advertising.
15	5	Revision of 1,2,3,4 & 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM203T : FINANCIAL ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Average Due Date -meaning of Average due date Advantages of Average Due Date. Basic problems in average due date-calculation of interests.
2	1	Account current -Meaning,-counting of days-methods of calculating interests-simple problems. of product method, Red ink interest method, interest table method, backward/Époque method ,Periodical balance method.
3	2	Branch Accounts -Branch – Meaning - Types of branches Department branches – difference between branch and Department.
4	2	Preparation of trading account of branches under debtor system-Preparation of total debtors account-Preparation of total creditors account-
5	2	problems of Stock and debtors system–whole sale branch system and Final account systems.
6	3	Departmental Accounts-Meaning ,definition,-Departmental trading and profit and loss account-preparation of unit purchase method.
8	3	Preparation of trading and Profit &Loss account of the department.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Revisions units 1,2,and 3
10	4	Admission of Partners-meaning-Accounting Treatments-calculation of new profit sharing ratio-valuation of goodwill-preparation of Revaluation account, ,capital account, balance sheet.
11	4	Retirement of Partner-meaning-Accounting Treatments - calculation of new profit sharing ratio-valuation of goodwill-preparation of Revaluation account, ,capital account, balance sheet.
12	4	Death of Partner. Adjustments Regarding profit sharing Ratio
13	5	Dissolution of firm-Modes of dissolution-insolvency of a partner-Garner Vs. Murray rule - Insolvency of all partner .
14	5	Piecemeal distribution – proportionate capital method-Maximum loss Method problems of Piecemeal distribution
15	5	Revisions units 4 and 5
7	3	Problems of Purchase Inter departmental transfers at cost price–Selling price

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bharathiyar
2	1	Bharathi dhasan
3	1	Erodu Thamizhanban
4	1	Arivumathi Suratha
5	4	Thiru.. V. Ka
6	4	Thiru. V.ka
7	4	Kodugal illatha varai padam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Nadayal vendra ulagan
9	5	Thamil ilakkanam
10	2	Silappathiharam
11	2	Mani megalai
12	2	Seevaga sinthamani
13	2	Appar Vallalar Kutrala kuravanji
14	3	Kalanum kizhaviyum Sumai thangi
15	3	Nagaram

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4,1 ETTUTHOGAI
2	1	1.1 PURANAANOORU - 30,182 1.2 AGANANOORU - 105,154
3	1	1.3 KURUNTHOGAI - 25,53 1.4 NATRINAI - 01,172
4	1	1.5 KALITHOGAI - 111,133
5	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 1-6
6	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 6-11
7	3	THIRUKURAL 3.1.KOODA OLUKKAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 AVAI ARITHAL 3.3 PAZHAIMAI
9	4	4.1 PATHTHUPAATTU -AATRUPPADAI NOOLGAL
10	4	4.1 PATHTHUPAATTU - AGAM, PURAM
11	2	2.1 PATHUPPAATTU - NEDUNAL VAADAI 1-63
12	2	2.2 PORUNAR AATRUPPADAI - 42- 78
13	2	2.3 MULLAI PAATTU 24- 79
14	2	2.4 MATHURAI KAAANJI 500-526
15	5	MOZHI THIRAN 5.1 KADITHANGAL 5.2 NER KANAL 5.3 PANBALAI VANOLI NIGALCHI THOGUPPU 5.4 VADIKKKAIALAR SEVAI MAIYAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	MARABUKAVITHAIYUM PUTHUKAVITHAIYUM - BHARATHIYARIN SENTHAMIZH NAADU
2	1	BHARATHIDASSANIN THAMIZHIYAKKAM - NENCHUPATHAIKKUM NILAI
3	1	ERODU THAMIZHANBANIN VALLUVARIN THAI IRANTHANAALIL
4	1	AREVUMATHIYIN PASUMAI SURATHAVIN SIKKANAM- THURAIMUGAM
5	4	URAINADAI - THIRU VI KA VIN SILAMURAIGAL
6	4	S. RAMAKRISHNANIN KODUGAL ILLA VARAIPADAM- NADAIYAL VENDRA ULAGAM
7	4	LUDOVIC HUBLARIN SALAI THIRANTHU KIDAKIRATHU

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	5	VALLINAM MIGUMIDAM , VALLINAM MIGAVIDAM
10	2	SILAPATHIGARAM - VAZHTHURAI KAATHAI
11	2	MANIMEGALAI - SIRAIKKOTTAM ARAKKOTTAM AAKKIYA KAATHAI
12	2	KAMBARAMAYANAM - JADAYUKAAN PADALAM
13	2	THIRUNAVUKARASARIN THIRU ANGAMALAI VALLALARIN PARASIVA NILAI KUTTRAL KURAVANCHIYIL NAATTU VALAM
14	3	SIRUKATHAIKAL - PUTHUMAIPITHANIN KAALANUM KIZHAVIYUM JAYAKANTHANIN SUMAITHAANGI
15	3	SUJATHAVIN NAGARAM -SIRUKATHAI
8	4	URAINADAI - THIRU VI KA VIN SILAMURAIGAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ASHOK KUMAR K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny All the world's a stage
2	1	The never never nest
3	2	Understanding Communication Greeting and Introducing Making Requests Agreeing and Disagreeing
4	2	Seeking and giving Permission Persuading and Debating Sounds and Symbols in English Word and Sentence Strees
5	2	Effective use of Intonation Telephone Manners in Business Situations Handling Customer Orders and Enquiries Handling Complaint Calls
6	3	The Gift of the Magi Malala Yousafzai Pakistani Activist The Monkey's Paw
7	4	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Effective Listening Understanding the Audience Perceptual Clarity
9	4	Channel Awareness Role of Non -- Verbal Communication Pragmatics
10	4	Handling Delivery and After -- Sales Problems Taking Part in Teleconferences Tele -- Interviews
11	5	Note -- Making
12	5	Report -- Writing
13	5	Publicity Literature ( Advertisements )
14	5	II CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is destiny (Prose )
2	1	All the world s stage - Williamsshakespeare
3	1	The never never nest
4	2	understanding communication Greeting & introduction
5	2	Seeking & giving permission Persuading & debating
6	2	Effective use of intentions Telephone manners in bussiness communication
7	2	Handling complain calls Handling customers orders

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The gift of the magi Malala yousafzai Pakistan activist
9	3	The Monkey s paw
10	4	Effective listening Understanding the Audience
11	4	Perceptual clarity Channel awareness Role of non verbal communication
12	4	Channel awareness Role of Non verbal communication
13	4	Pragmatics Handling delivery & after sales problems
14	5	Teleinterview Note making
15	5	Report writing Publicity literature (Advertisement)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to instructions
2	1	Speaking pair work & small group
3	1	Linking word Small group discussion
4	1	Reading skimming & scanning
5	2	Checking facts & opinion
6	2	Writing products description
7	2	Listening lectures

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Listening listen to lecture
9	3	Speaking Role play
10	3	Reading listening comprehension
11	3	One word substitution
12	4	Modals Definition
13	4	Listening interview of speciality
14	5	Note making Writing developing story from picture
15	5	Creative writing Significance of written communication in business

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KIRUTHIKA S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Economics-Meaning -Definition-Nature& Scope of Business Economics.
2	1	Relationship of Business Economics and other disciplines-Objectives of Business Firm-Business Decision Making Process.
3	2	Demand –Meaning-Definition-Factors Influencing Demand.
4	2	Law of Demand – Exceptions to the Law of Demand .
5	2	Elasticity of Demand –Importance of Elasticity of Demand-Types of Elasticity of Demand.
6	3	Demand Forecasting -Meaning-Objectives of Demand Forecasting-Types of Forecasting.
7	3	Methods of Demand Forecasting-Survey method-Consumer survey Method-Expert opinion method- Statistical Methods-Trend Projection.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Criteria of a good forecasting method-Forecasting Demand for New Products.
9	4	Introduction-Factors of Production-Production Function .
10	4	Importance of Production Function –The Cobb-Douglas Production Function.
11	4	The Law of Variable Proportions – The Law of Returns to Scale.
12	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost-Total Cost- Total Fixed Cost, and Total Variable Cost.
13	5	Relationship between Average cost & Marginal cost-U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>19GCM31B : Internet technologies</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Basics:What is Internet?-Origin of Internet-IP address-Domain name-Host Name- DNS-Port Number-WWW-URL-Web server-Web browser-Search Engine-Types of Internet Connections-Hardware Requirements-Internet accounts-Network-Types of Network- Network To.
2	1	-Domain name-Host Name- DNS-Port Number-WWW-URL-Web server-Web browser-
3	1	Search Engine-Types of Internet Connections-Hardware Requirements-Internet accounts-Network-Types of Network-Network Topologies.
4	2	Introduction to HTML: History of HTML-Structure of HTML
5	2	-Basic HTML tags-Linking HTML document
6	2	-Adding images into HTML document-List
7	3	HTML and CSS: Tables creation in HTML -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Frames in HTML
9	3	-Cascading Style Sheet (CSS)- Uses of CSS-Types of CSS
10	4	Java Script: Java Script Syntax-Input and Output in Java Script -
11	4	Data types- Variables- Arrays-Expressions-
12	4	Dialog box-Looping structure.
13	5	Uses of Internet: E-mail-Chat-On line Transaction-
14	5	credit card transaction-Debit card transaction
15	5	Net banking-E-Business-Uses of internet in education-E-Shopping-Web publishing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM305P : CORPORATE ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT -I: Issue of Shares Issue of Shares – Introduction – Meaning –Definition – Features-Kinds of Companies.
2	1	Under Subscription and Over Subscription-Issue of shares at par-At Premium-At Discount-Calls-in- arrears, Calls-in-advance - Problem Solving.
3	1	Forfeiture of Shares - Reissue of Forfeited Shares-Balance Sheet- Problem Solving.
4	2	UNIT - II: Redemption of Preference Shares Introduction – Meaning - Provision of the Companies Act Section 80 and 80A - Steps Involved in Redemption of Preference Shares.
5	2	Steps Involved in Redemption of Preference Shares - Balance Sheet (Revised Schedule VI).- Problem Solving.
6	2	Balance Sheet (Revised Schedule VI)- Problem Solving.
7	3	UNIT- III: Acquisition of Business Introduction-Meaning-When new set of books are opened-Net asset method-Net payment method.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Acquisition of Business - Problem Solving.
9	3	Debtors and Creditors taken over on behalf of vendors-When same set of books are continued-When Debtors and Creditors are not taken over- Problem Solving.
10	4	UNIT -IV: Profits Prior to Incorporation Introduction – Meaning-Methods of Ascertaining profit or loss prior to Incorporation-
11	4	Basis of Apportionment of Expenses. Calculation of ratios.- Problem Solving. Ascertaining profit or loss prior to Incorporation- Problem Solving.
12	5	UNIT - V: Final Accounts of Companies Introduction - statement of profit and loss (Part II of Revised Schedule VI)- Problem Solving.
13	5	Balance Sheet Preparation -(Part I of Revised Schedule VI)- Problem Solving.
14	5	Calculation of Managerial Remuneration.- Problem Solving.
15	5	Revision -- Problem Solving.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM408P : CORPORATE ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Valuation of Goodwill and Shares Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill-Methods-Average profit method-Weighted Average-Super profit method
2	1	Annuity Method-Capitalization Method. Shares-Introduction-Meaning-Definition-Need
3	1	Factors affecting valuation of shares-Methods-Net asset method-Yield Method-Fair value method.
4	2	Alteration of Share Capital and Internal Reconstruction Introduction-Meaning-Different kinds of alteration of share capital-Capital reduction
5	2	Procedure for reduction of share capital.
6	3	UNIT-III Amalgamation, Absorption and External Reconstruction (Amalgamation-Introduction-Meaning (Accounting Standard 14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase
7	3	Computation of Purchase Consideration-Lump sum method-Net payment method-Net asset method- Intrinsic value method-Absorption-Meaning-Methods- Net payment method-Net asset method-Intrinsic value method-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	External Reconstruction-Introduction-Meaning- Methods-Lump sum method-Net payment method (Intercompany holding excluded).
9	4	UNIT –IV Holding Companies (20 Hrs.) Holding Company- Introduction-Meaning-Definition-Subsidiary Company- Meaning- Capital Profit
10	4	Revenue Profit-Minority Interest-Goodwill/Capital Reserve
11	4	Unrealized Profit-Computation of consolidated balance sheet (As per Revised Schedule VI).
12	5	Bank Accounts Introduction-Meaning-Business of banking companies-Legal Requirements Preparation of profit and loss accounts (Form ‘B’ of Schedule III) and Balance Sheet (Form ‘A’ of Schedule III).
13	5	Preparation of profit and loss accounts (Form ‘B’ of Schedule III)
14	5	Balance Sheet (Form ‘A’ of Schedule III).
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHN BOSCO M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM409A : BANKING LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bank –Meaning, Definition, Classification, types of banks and their functions and Services. -
2	1	Commercial Banks – meaning, definition and functions. Central Bank - meaning, definition and functions
3	1	Universal Banking - Banking Regulations Act 1949 – features, objectives and recent amendments.
4	2	Negotiable instruments- meaning and definition, features and types of Cheque-Essentials of a Cheque-Crossing of a Cheque-General Crossing a n d Special Crossing-
5	2	Payment of ChequeCollection of Cheque -Endorsement. Promissory note- meaning and features.
6	2	Bill of Exchange– Meaning, features, difference between cheque and bill of exchange, difference between bill of exchange and promissory note
7	3	Banker - Customer - General and Special relationship between Banker and Customer -



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Opening of Current - Saving - Recurring - Fixed deposit Accounts - Special types of Accounts - Minor -
9	3	Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions.
10	4	Credit Rating – Meaning, Basis, symbols and Benefits. Lending – Meaning,
11	4	Lending and Investment Policies of Commercial Banks. Types of loans – Secured and Unsecured Loans.
12	4	Recovery Management – Meaning, Advantages and Disadvantages – Elements of Debt Recovery – Procedure of Debt Recovery – Non-Performing Assets – Meaning.
13	5	E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs - CashMachine -
14	5	Electronic Money - Electronic Fund Transfer System (EFT) – RTGS -- ElectronicClearing Services (ECS) ElectronicFundTransfer: Interbank Fund Transfer Processor (IFTP), Immediate Payment Service (IMPS)– National Electronic Fund Transfer (NEFT) and Re...
15	5	(RTGS)– Difference Between IMPS, RTGS, NEFT, UPI and Mobile Wallets- Indian Financial Network - Customer Grievances Redressal andOmbudsman.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>19GCM42A : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Entrepreneurship: Meaning- Nature-Importance-Theories- Entrepreneur: Meaning-Definition-Characteristics-Qualities
2	1	Types and Roles of an Entrepreneur-Entrepreneur vs Intrapreneur-Factors Promoting an Entrepreneur
3	1	Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Role of entrepreneurs in India's Economic Development
4	2	Entrepreneurship Development Programmes - Meaning-Needs- Objectives
5	2	Course Contents and Curriculum-Phases of EDP-Problems and Constraints of EDP
6	2	Organizations providing Entrepreneurship Development Programmes
7	3	New Venture - Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Project Identification-Project Selection. - Procedures to Start a New Venture
9	3	Project : Meaning- Types-formulation of Project report -Project Appraisal- Network Analysis.
10	4	Institutional Support and Subsidies - Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance
11	4	Institutional Finance- Various Institutions supporting Entrepreneurial growth
12	4	Incentives and Subsidies: Meaning-Needs-Incentives and Subsidies available to Entrepreneurs0– DIC- Industrial Estates
13	5	MSMED Act 2006 -Introduction- Classification of Enterprises-Memorandum of MSMEs-Registration of MSMEs-
14	5	MUDRA Scheme, Prime Minister's Employment Generation Programme (PMEGP)
15	5	STAND-UP INDIA and START-UP INDIA: Objectives-Purpose-Loan facilities available-Applying Procedures.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Commerce	Semester	4
Subject	EVS401S : ENVIRONMENTAL SCIENCE	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession – food chains, food webs and ecological pyramids –
5	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation – hot spots –
7	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM306A : PRINCIPLES OF MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Management – Meaning, Definition, Functions of management, Managerial skills, Levels of management
2	1	Roles of manager, Management as a Science or Art. Approaches to management. C
3	1	Contribution to management by F.W.Taylor, Henry Fayol, Elton Mayo, Peter F. Drucker and C. K. Prahalad
4	2	Planning – Meaning, Definition, Importance, Process, Types, Methods
5	2	Objectives, Policies, Procedures, Strategies and programmes,
6	2	Obstacles to effective planning. Decision Making, Steps, Types, Decision Tree.
7	3	Organization – Importance, Principles of Organisation, Delegation & Decentralization. Departmentation



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Span of Management, Organizational structure, Line & Staff and functional, Organizational charts and manual, Making organizing effective
9	3	Staffing - Meaning, Characteristics, Functions and steps involved in staffing.
10	4	Directing – Meaning, Definition, Function. Motivation, Theories of motivation (Maslow, Herzberg, Mc Gregor's and Vroom's theories). Motivation techniques
11	4	Communication – Function, Process, Barriers to effective communication.
12	4	Leadership – Definition, Theories and approach to leadership, Styles of leadership, Types.
13	5	Co-ordination - Meaning, Definition, Nature, Problems of effective coordination
14	5	Control – Nature, Basic control process, Control techniques (traditional and non-traditional)
15	5	Use of Computers in managing information, Concepts of Keizen, Six Sigma.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>19GCM31B : Internet technologies</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Introduction to HTML:
2	2	Structure of HTML-Basic HTML tags
3	2	Linking HTML document
4	2	Adding images into HTML document,List
5	1	Types of Internet Connections
6	1	Search Engine
7	1	Hardware Requirements-Internet accounts

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Network-Types of Network
9	1	Network Topologies.
10	4	Java Script: Java Script Syntax-
11	4	Input and Output in Java Script
12	4	Data types- Variables
13	4	-Arrays-Expressions-Dialog box-Looping structure,Looping structure
14	5	E-Business-Uses of internet in education
15	5	E-Shopping-Web publishing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM409A : BANKING LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bank Meaning, Definition, Classification, types of banks and their functions and Services.
2	1	Commercial Banks meaning, definition and functions. Central Bank - meaning, definition and functions
3	1	Universal Banking - Banking Regulations Act 1949 features, objectives and recent amendments.
4	2	Cheque - Essentials of a Cheque - Crossing of a Cheque - General Crossing - Special Crossing -
5	2	Payment of Cheque - Collection of Cheque- Endorsement - Debit Card - Credit Card - Green Card - Smart Card.
6	3	Banker - Customer - General and Special relationship between Banker and Customer -
7	3	Opening of Current - Saving - Recurring - Fixed deposit Accounts - Special types of Accounts

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Minor - Lunatic - Partnership Firm - Joint Stock Company - : Non - Trading Institutions.
9	4	Credit Rating Meaning, Basis, symbols and Benefits. Lending Meaning, Lending and Investment Policies of Commercial Banks.
10	4	Types of loans Secured and Unsecured Loans. Recovery Management Meaning, Advantages and Disadvantages
11	4	Elements of Debt Recovery Procedure of Debt Recovery Non- Performing Assets Meaning
12	5	E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs
13	5	Cash Machine - Electronic Money - Electronic Fund Transfer System (EFT) RTGS -
14	5	Electronic Clearing Services (ECS) - Indian Financial Network - Customer Grievances Redressal and Ombudsman.
15	5	Revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>19GCM31B : Internet technologies</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internet Basics:What is Internet?-Origin of Internet-IP address-Domain name-Host Name- DNS-Port Number-WWW-URL-Web server-Web browser-Search Engine-Types of Internet Connections-Hardware Requirements-Internet accounts-Network-Types of Network- Network To.
2	1	-Domain name-Host Name- DNS-Port Number-WWW-URL-Web server-Web browser-
3	1	Search Engine-Types of Internet Connections-Hardware Requirements-Internet accounts-Network-Types of Network-Network Topologies.
4	2	Introduction to HTML: History of HTML-Structure of HTML
5	2	-Basic HTML tags-Linking HTML document
6	2	-Adding images into HTML document-List
7	3	HTML and CSS: Tables creation in HTML -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Frames in HTML
9	3	-Cascading Style Sheet (CSS)- Uses of CSS-Types of CSS
10	4	Java Script: Java Script Syntax-Input and Output in Java Script -
11	4	Data types- Variables- Arrays-Expressions-
12	4	Dialog box-Looping structure.
13	5	Uses of Internet: E-mail-Chat-On line Transaction-
14	5	credit card transaction-Debit card transaction
15	5	Net banking-E-Business-Uses of internet in education-E-Shopping-Web publishing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM305P : CORPORATE ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT -I: Issue of Shares Issue of Shares – Introduction – Meaning –Definition – Features-Kinds of Companies.
2	1	Under Subscription and Over Subscription-Issue of shares at par-At Premium-At Discount-Calls-in- arrears, Calls-in-advance - Problem Solving.
3	1	Forfeiture of Shares - Reissue of Forfeited Shares-Balance Sheet- Problem Solving.
4	2	UNIT - II: Redemption of Preference Shares Introduction – Meaning - Provision of the Companies Act Section 80 and 80A - Steps Involved in Redemption of Preference Shares.
5	2	Steps Involved in Redemption of Preference Shares - Balance Sheet (Revised Schedule VI).- Problem Solving.
6	2	Balance Sheet (Revised Schedule VI)- Problem Solving.
7	3	UNIT- III: Acquisition of Business Introduction-Meaning-When new set of books are opened-Net asset method-Net payment method.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Acquisition of Business - Problem Solving.
9	3	Debtors and Creditors taken over on behalf of vendors-When same set of books are continued-When Debtors and Creditors are not taken over- Problem Solving.
10	4	UNIT -IV: Profits Prior to Incorporation Introduction – Meaning-Methods of Ascertaining profit or loss prior to Incorporation-
11	4	Basis of Apportionment of Expenses. Calculation of ratios.- Problem Solving. Ascertaining profit or loss prior to Incorporation- Problem Solving.
12	5	UNIT - V: Final Accounts of Companies Introduction - statement of profit and loss (Part II of Revised Schedule VI)- Problem Solving.
13	5	Balance Sheet Preparation -(Part I of Revised Schedule VI)- Problem Solving.
14	5	Calculation of Managerial Remuneration.- Problem Solving.
15	5	Revision -- Problem Solving.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Commerce</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>OM PRAKASH M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>19GCM42A : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Entrepreneurship: Meaning- Nature-Importance-Theories- Entrepreneur: Meaning-Definition-Characteristics-Qualities
2	1	Types and Roles of an Entrepreneur-Entrepreneur vs Intrapreneur-Factors Promoting an Entrepreneur
3	1	Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Role of entrepreneurs in India's Economic Development
4	2	Entrepreneurship Development Programmes - Meaning-Needs- Objectives
5	2	Course Contents and Curriculum-Phases of EDP-Problems and Constraints of EDP
6	2	Organizations providing Entrepreneurship Development Programmes
7	3	New Venture - Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Project Identification-Project Selection. - Procedures to Start a New Venture
9	3	Project : Meaning- Types-formulation of Project report -Project Appraisal- Network Analysis.
10	4	Institutional Support and Subsidies - Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance
11	4	Institutional Finance- Various Institutions supporting Entrepreneurial growth
12	4	Incentives and Subsidies: Meaning-Needs-Incentives and Subsidies available to Entrepreneurs0– DIC- Industrial Estates
13	5	MSMED Act 2006 -Introduction- Classification of Enterprises-Memorandum of MSMEs-Registration of MSMEs-
14	5	MUDRA Scheme, Prime Minister's Employment Generation Programme (PMEGP)
15	5	STAND-UP INDIA and START-UP INDIA: Objectives-Purpose-Loan facilities available-Applying Procedures.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Commerce	Semester	4
Subject	EVS401S : ENVIRONMENTAL SCIENCE	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession – food chains, food webs and ecological pyramids –
5	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation – hot spots –
7	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM408P : CORPORATE ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill-Methods-Average profit method
2	1	Weighted Average-Super profit method-Annuity Method-Capitalization Method. Shares-Introduction-Meaning-Definition
3	1	Factors affecting the valuation of shares-Methods-Netasset method-Yield Method-Fair value method
4	2	Introduction-Meaning-Different kinds of alteration of share capital
5	2	Capital reduction Problems
6	2	Procedure for reduction of share capital.
7	3	Amalgamation-Introduction-Meaning(AccountingStandard14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase-Computation of Purchase Consideration-Lumpsum method-Net payment method-Net asset method-Intrinsicvaluemethod-



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Absorption-Meaning-Methods-Netpaymentmethod-Netassetmethod-Intrinsicvaluemethod
9	3	External Reconstruction-Introduction-Meaning-Methods-Lumpsum method-Net payment method
10	4	Holding Company-Introduction-Meaning-Definition-Subsidiary Company-Meaning-Capital Profit-Revenue Profit
11	4	MinorityInterest-Goodwill/CapitalReserve-UnrealizedProfi
12	4	Preparation of Computation of consolidated Balance sheet
13	5	Introduction-Meaning-Business of banking companies
14	5	Legal Requirements-Preparation of profit and loss accounts
15	5	Preparation of Balance sheet of banking Companies

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>CM512P : HUMAN RESOURCE MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Human Resources Management – Definition – Meaning, Nature, Scope and Objectives, Functions, Importance. Qualities a
2	1	Role of HR Manager - Problems and Challenges of HR Manager. Human Capital Management
3	1	Jobs and Career in Human Capital Management.
4	2	HRP Process, Problems And Barriers To HRP, HRP Effectiveness-J Human Resource Planning
5	2	Definition, Need And Importance, ob Analysis
6	2	Job Design, Job Enrichment– Job Description, Job Specification.
7	3	Recruitment and Selection – Meaning and Definition, Objectives Sources Of Recruitment, Process,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Methods, and Recruitment Practices .
9	3	In India. Application Blank, Interviews.
10	4	Training and Development - Meaning – Nature, Principles, Assessing The Needs Of Training, Inputs And Gaps In Training
11	4	Training And Development As Source Of Competitive Advantage
12	4	Methods Of Training, Evaluation Of Effectiveness Of Training Programme, Making The Training Effective-HR Culture In MNCs.
13	5	Performance and Potential Appraisal Performance - Meaning, Purpose-Proces
14	5	Methods – Traditional and Modern Methods
15	5	Problems and Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>19CM619 : CUSTOM, EXCISE AND GOODS AND SERVICE TAX</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Customs act 1962 Objectives of Customs Act Levy and collection of Customs duty classification of goods Goods Exempted from Customs duty
2	1	Searches seizures, confiscation and penalties Central excise duty 1944 Nature of excise duty levy and collection of excise duty
3	1	Type of excise duty valuation of goods clearance of goods clearance of samples registration and exemption from registration
4	1	Unit Test conducted
5	2	Goods and Service Tax Meaning, History of Goods and Service Tax Features, Objectives Challenges
6	2	Types SWOT (Strength, Weakness Opportunities and Threats of Goods and Service Tax) Scope of Goods and Service Tax Difference between Indirect Tax and Goods and Service Tax.
7	2	Advantages and Disadvantages of Goods and Service Tax Impact of GST Effects of Goods and Service Tax in Indian Economy General Constraints in Implementation of GST

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Meaning Importance Types, Person Liable to get Registered Procedure for Resident and Non- Resident
9	3	Enrolment process under Goods and Service Tax Documents required Penalties Cancellation of Registration Revocation of Cancellation of Registration.
10	4	Supply Meaning Place of Supply
11	4	Time of Supply Value of Supply
12	4	Value of Supply Methods of Valuation Goods and Service Tax on Exports.
13	5	Assessment Meaning and types Accounts and Other Records Periods of Retention of Accounts Returns Furnishings of details of Outward Supply Furnishing of Returns First Return
14	5	Claim of Input tax credit and Provisional Acceptance thereof Matching and Reversal and Reclaim at Reduction in Output tax liability .
15	5	Annual Return Furnishing of Final Return Payments of Goods and Service Tax TDS and TCS under Goods and Service Tax Refund of Goods and Service Tax.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	5
Subject	CM511Q : COST ACCOUNTING	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Costing Methods : Costing methods – Meaning, Importance and objectives of Cost Accounting - Cost accountings Vs. Financial Accounting, Reconciliation of Cost and simple problems on Preparation of Cost sheet
2	1	Advanced problems on Cost Sheet.
3	2	Material costing : Material control –Meaning, objectives – Need –advantages. Inventory control and its techniques – Stock levels and EOQ – methods of pricing material issues. Simple Problems on Material Costing.
4	2	FIFO – LIFO – HIFO and Problems
5	2	Labour costing : Labour costing and control – Labour turn over – idle time – over time – remuneration – time rate and piece rate – Incentive system – Halsey and Rowan plans and Problems on Labour Costing.
6	3	Job Costing : Meaning, pre requisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing, Simple Problems on Job Costing.
7	3	Advanced Problems on Job Costing. Batch costing: Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Advanced Problem on Batch Costing.
9	3	Revision.
10	4	Process Costing : Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages and Simple Problems on Process Costing.
11	4	Treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification-Joint and by – products costing and its Problems
12	4	problems under reverse cost method and Advanced Problems on Process Costing
13	5	Contract Costing : Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing, profit on incomplete contracts and Simple Problems.
14	5	Advanced Problems on Contract Costing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VAITIANADANE @ ANBOUNADANE P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>CM616Q : MANAGEMENT ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Management Accounting : Meaning, Definition, Objectives, Nature and Scope – Role of Management Accountant - Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.
2	1	Analysis of Financial Statements : Types of Analysis –Methods of Financial Analysis – Problems on Comparative Statement analysis.
3	1	Problems on Common Size Statement analysis and Trend Analysis.
4	2	Ratio Analysis : Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios.
5	2	Problems on Ratio Analysis.
6	3	Fund Flow Analysis : Meaning and Definition of Fund Flow Statement –Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement - Procedure for preparation of Fund Flow Statement .
7	3	Statement of changes in Working Capital –Statement of Funds from Operations –Statement of Sources and Applications of Funds. Problems on Fund Flow Analysis



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cash Flow Analysis : Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement –Limitations of Cash Flow Statement – Provisions of Indian Accounting Standard - 7(IAS7) – Procedure for preparation of Cash Flow Statement – Cash Fl...
9	3	Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to IAS-7 (Indirect Method Only). Problems on Cash Flow Analysis.
10	3	Revision
11	4	Budgeting and Budgetary Control : Meaning and definition of budget – Essential features of budget – Budgeting – budgetary control – objectives – essentials of successful budgetary control–classification of budgets – on the basis of time –...
12	4	Budgeting and Budgetary Control : Classification of budgets : on the basis of flexibility – on the basis of functions. zero based budgeting –advantages and limitations of budgetary control–preparation of production, sales, materials, material purcha...
13	5	Marginal Costing : Definition, features, advantages and limitation – break even analysis and break – Even point– margin of safety.
14	5	Problems on Marginal Costing.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>ECM515T : INDIAN CAPITAL MARKET</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Capital Market – meaning - structure of Indian capital market – primary and secondary market.
2	1	Stock exchanges – functions of stock exchanges – regulatory environment of stock exchanges.
3	1	Financial instruments and institutions- recent trends in Indian capital market. Sensex index-Meaning–methods of calculation of sensex index. Nifty-Meaning.
4	2	Money market – characteristics, importance, instruments and institutions
5	2	Defects of Indian money market–steps taken by government to tune up Indian money market
6	3	SEBI-meaning,objectives,functions- GuidelinesforStockExchanges-
7	3	Guide line to set up new stock exchange, Guidelines for trading,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Guidelines for clearing and settlement. Guideline for opening terminal in abroad.
9	4	Merchant banking – meaning, functions and types.
10	4	Underwriting – meaning, types and merits. Venture capital – meaning, features, importance and stages in venture capital financing.
11	4	Factoring–meaning, characteristics, mechanism, types and benefits .Forfeiting Meaning and Mechanism.
12	5	Mutual funds – meaning, features and types.–
13	5	Portfolio finance – meaning. Credit rating –meaning, features, process and advantages
14	5	Companies offering Credit rating services in India–Recent trends in financial services in India.
15	5	revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>ECM620T : INVESTMENT MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Investment Meaning- Investment Vs. Speculation- Investment Vs Gambling-
2	1	Important factors favorable for Investment Program
3	1	Stages in Investment - Investors Classification
4	2	Meaning- Bonds- Preference Shares- Equity shares-
5	2	Derivatives- Options- Swaps- Futures- Mutual funds
6	3	Meaning- Government Securities- Life Insurance
7	3	UTI- Commercial banks- Provident fund

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Post office schemes- National Savings Schemes- Fixed Deposit Schemes.
9	4	Meaning- Historical and Expected return-
10	4	Types of risk- Measurement of risk
11	5	Meaning- Economy,
12	5	Industry and Company Specific analysis
13	5	Tools for technical analysis- Charts,
14	5	Support and Resistant level analysis.
15	5	Revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>19CM514 : INCOME TAX LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Concepts and definitions of Previous Year, Assessment Year, Persons, Assesse, Income, –
2	1	Gross Total Income – Residential status – Exempted Income – Agricultural Income Computation of Salary Income
3	1	Taxable Allowances, Perquisites and Profit in lieu of salary –
4	1	Deductions u/s 80 C to 80 U.
5	2	Computation of House Property income -Annual value – Deductions.
6	2	Computation of House Property income -Annual value – Deductions.
7	3	Profits & Gains from business or Profession – Expressly allowed and disallowed

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	deductions – Depreciation – Block of assets.
9	1	Revision
10	4	Income from Capital gains – deductions and exemptions
11	4	Income from other sources
12	5	Deemed Income -Set off and carry forward of losses.
13	5	Set off and carry forward of losses.
14	5	Set off and carry forward of losses.
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHN BOSCO M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>CM618 : PRACTICAL AUDITING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Auditing - Meaning – Definition – Objectives – Scope – Advantages, Limitations - Distinction between Accounting and auditing ,
2	1	– Difference between Auditing and Investigation, materiality in auditing
3	1	evidence – audit techniques, classification asto methods of approach to work – types and conduct of audit.
4	2	Audit planning – audit engagement letter - factors considered before commencing a newaudit,
5	2	audit files, audit note book, working papers – vouching of cash and trading transaction
6	2	audit programme, – internal check – internal control – internal audit.
7	3	Verification and valuation of assets and liabilities – meaning – objectives of verification and valuation – verification and revaluation of liabilities.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Vouching – classifications of asset – importance of valuation – difference between verifications
9	3	verification and revaluation of liabilities.
10	4	Audit of limited companies –necessity of company Audit.Qualification and disqualifications of auditors – .
11	4	appointment of auditors, ceiling on numbers of audits, remuneration of auditors, removal of auditors
12	4	Powers, duties and liabilities of a company auditor. Special audit U/S 233A – powers of central government, powers and duties of special auditors, contents of special audit report.
13	5	Investigation – scope – objects, procedures followed in investigation – investigation under the company act –
14	5	powers of inspector’s .EDP systems – Characteristics – comparison of manual and EDP systems –
15	5	features of auditing through computer system – computer based accounting – features of CAAT – uses of CAAT.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>ECM515T : INDIAN CAPITAL MARKET</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Capital Market – Meaning - Structure of Indian capital market – Primary and secondary market. Stock exchanges – Functions of stock exchanges
2	1	Regulatory environment of stock exchanges. Financial instruments and institutions- Recent trends in Indian capital market.
3	1	Sensex index-Meaning –methods of calculation of Sensex index. Nifty-Meaning.
4	2	Money market – Characteristics, importance, instruments and institutions
5	2	Defects of Indian money market - Unit Test
6	2	Steps taken by government to tune up Indian money market.
7	3	SEBI-meaning, objectives, functions-Guidelines for Stock Exchanges

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Guideline to set up new stock exchange,
9	3	Guidelines for trading, clearing and settlement. Guideline for opening terminal in abroad.
10	4	Merchant banking – meaning, functions and types. Underwriting – meaning, types and merits.
11	4	Venture capital – meaning, features, importance and stages in venture capital financing.
12	4	Factoring – meaning, characteristics, mechanism, types and benefits. Forfeiting –Meaning and Mechanism
13	5	Mutual funds – meaning, features and types. Portfolio finance – meaning.
14	5	Credit rating – meaning, features, process and advantages
15	5	Companies offering Credit rating services in India– Recent trends in financial services in India. Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>19CM619 : CUSTOM, EXCISE AND GOODS AND SERVICE TAX</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Customs act 1962 Objectives of Customs Act Levy and collection of Customs duty classification of goods Goods Exempted from Customs duty
2	1	Searches seizures, confiscation and penalties Central excise duty 1944 Nature of excise duty levy and collection of excise duty
3	1	Type of excise duty valuation of goods clearance of goods clearance of samples registration and exemption from registration
4	1	Unit Test conducted
5	2	Goods and Service Tax Meaning, History of Goods and Service Tax Features, Objectives Challenges
6	2	Types SWOT (Strength, Weakness Opportunities and Threats of Goods and Service Tax) Scope of Goods and Service Tax Difference between Indirect Tax and Goods and Service Tax.
7	2	Advantages and Disadvantages of Goods and Service Tax Impact of GST Effects of Goods and Service Tax in Indian Economy General Constraints in Implementation of GST

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Meaning Importance Types, Person Liable to get Registered Procedure for Resident and Non- Resident
9	3	Enrolment process under Goods and Service Tax Documents required Penalties Cancellation of Registration Revocation of Cancellation of Registration.
10	4	Supply Meaning Place of Supply
11	4	Time of Supply Value of Supply
12	4	Value of Supply Methods of Valuation Goods and Service Tax on Exports.
13	5	Assessment Meaning and types Accounts and Other Records Periods of Retention of Accounts Returns Furnishings of details of Outward Supply Furnishing of Returns First Return
14	5	Claim of Input tax credit and Provisional Acceptance thereof Matching and Reversal and Reclaim at Reduction in Output tax liability .
15	5	Annual Return Furnishing of Final Return Payments of Goods and Service Tax TDS and TCS under Goods and Service Tax Refund of Goods and Service Tax.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>CM511Q : COST ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Costing methods –Meaning, Importance and objectives of Cost Accounting
2	1	Cost accountings Vs. Financial Accounting and its Reconciliation of Cost. Preparation of Cost sheet
3	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques – Stock levels and EOQ-
4	2	methods of pricing material issues – FIFO – LIFO – HIFO.
5	2	Labour costing and control - Labour turn over – idle time-over time-remuneration-time rate and piece rate – Incentive system - Halsey and Rowan plans.
6	3	Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing
7	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Comparison between Job and Batch Costing – problems.
9	3	I ST C I A EXAM
10	4	Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing
11	4	, Advantages and disadvantages, treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification
12	4	Joint and by -products costing – problems under reverse cost method
13	5	Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing
14	5	procedure of contract costing, profit on incomplete contracts, Problems.
15	5	II CIA EXAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>CM616Q : MANAGEMENT ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Management Accounting: Meaning, Definition, Objectives, Nature and Scope–Role of Management Accountant - Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.
2	1	Analysis of Financial Statements: Types of Analysis –Methods of Financial Analysis–Problems on Comparative Statement analysis –Common Size Statement analysis and Trend Analysis
3	2	Ratio analysis Meaning and Definition of Ratio ,Classification of Ratios, Uses &Limitations–Meaning and types of Ratio Analysis
4	2	Calculation of Profitability ratios- Grass profit ratio, operating profit ratio, operating ratio, Net profit ratio, Calculation of Turnover ratio - Debtor turnover ratio, debtor collection period, working capital turnover, creditor turnover ratio, stock .
5	2	Calculation of Solvency ratios- Cash ratio, liquidity ratio, current ratio, quick ratio, debt equity ratio, proprietary ratio
6	3	Meaning and Definition of Fund Flow Statement–Uses and Limitations of FundFlow Statement–Differences between Cash FlowStatement and FundFlow Statement
7	3	Procedure for preparation of Fund Flow Statement –Statement of changes in Working Capital –Statement of Funds from Operations –Statement of Sources and Applications of Funds-Problems.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Provisions of Indian Accounting Standard-7(IAS7)–Procedure for preparation of Cash Flow Statement–Cash Flow from Operating Activities –Cash Flow from Investing Activities and Cash Flow from Financing Activities –Preparation of Cash Flow Statement...
9	3	Revisions unit 1,2and3
10	4	Budgeting and Budgetary Control- Meaning and definition of budget-essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control–classification of budgets.
11	4	On the basis of time-on the factors of production-on the basis of flexibility–on the basis of functions-zero based budgeting - advantages and limitations of budgetary control.
13	5	Marginal costing – definition, features, advantages and limitation of marginal cost.
15	5	Revisions unit 4 and5
12	4	Preparation of production, sales, materials , purchase, production cost, cash and flexible
14	5	Problems of break even analysis and break-even point–margin of safety.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>CM512P : HUMAN RESOURCE MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Human resource management , definition, meaning, scope, objectives and function
2	1	importance , qualities and role of HR manager , problems and challenges HR manager
3	1	HCM , Jobs and Career in HCM
4	2	HRP , Meaning, definition, need , importance and process of HRP
5	2	problems and barriers in HRP - HRP effectiveness- job analysis
6	2	job description , job specification and job design
7	3	recruitment and selection , meaning, definition , objectives of Recruitment , sources of recruitment

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	process and methods of recruitment recruitment practices in India . Application blank and interviews
9	4	training and development , meaning , definition. nature , principles and the need of training
10	4	inputs and gaps in training. source of competitive advantage, methods of training
11	4	effectiveness of training program , HR culture in MNC
12	5	performance and potential appraisal meaning and purpose
13	5	performance and potential appraisal process and methods
14	5	performance and potential appraisal traditional and modern methods , problems related to performance and potential appraisal
15	5	revision of all units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>ECM620T : INVESTMENT MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Investment Meaning- Investment Vs. Speculation- Investment Vs Gambling-
2	1	Important factors favorable for Investment Program
3	1	Stages in Investment - Investors Classification
4	2	Meaning- Bonds- Preference Shares- Equity shares-
5	2	Derivatives- Options- Swaps- Futures- Mutual funds
6	3	Meaning- Government Securities- Life Insurance
7	3	UTI- Commercial banks- Provident fund

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Post office schemes- National Savings Schemes- Fixed Deposit Schemes.
9	4	Meaning- Historical and Expected return-
10	4	Types of risk- Measurement of risk
11	5	Meaning- Economy,
12	5	Industry and Company Specific analysis
13	5	Tools for technical analysis- Charts,
14	5	Support and Resistant level analysis.
15	5	Revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>CM618 : PRACTICAL AUDITING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Revision
15	4	Revision
1	1	Auditing– Meaning, Definition, Objectives , Scope , Advantages, Limitations. Distinction between Accounting and auditing,
2	1	Difference between Auditing and Investigation, materiality in auditing, evidence , audit techniques,
3	1	classification and methods of approach to work, types and conduct of audit.
4	2	Audit planning – audit engagement letter , factors considered before commencing a new audit, audit programme,
5	2	audit files, audit note book, working papers , vouching

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	2	vouching of cash and trading transaction, internal check, internal control, internal audit.
7	3	Verification and valuation of assets and liabilities—Meaning, objectives of verification and vouching
8	3	Classifications of assets, importance of valuation, difference between verification and valuation, verification and revaluation of liabilities.
10	4	Audit of limited companies - necessity of company Audit, Qualification and disqualifications of auditors , appointment of auditors,
11	4	Audit of limited companies - necessity of company Audit, Qualification and disqualifications of auditors , appointment of auditors,
12	4	Special audit U/S 233A - powers of central government, powers and duties of special auditors and contents of special audit report.
13	5	Investigation- scope, objects, procedures followed in investigation , investigation under the company act, powers of inspectors.
14	5	EDP systems - Characteristics, comparison of manual and EDP systems, features of auditing through computer system, computer based accounting, features of CAAT , uses of CAAT.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>19CM514 : INCOME TAX LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Concepts and definitions of Previous Year, Assessment Year, Persons, Assesse, Income, –
2	1	Gross Total Income – Residential status – Exempted Income – Agricultural Income Computation of Salary Income
3	1	Taxable Allowances, Perquisites and Profit in lieu of salary –
4	1	Deductions u/s 80 C to 80 U.
5	2	Computation of House Property income -Annual value – Deductions.
6	2	Computation of House Property income -Annual value – Deductions.
7	3	Profits & Gains from business or Profession – Expressly allowed and disallowed



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	deductions – Depreciation – Block of assets.
9	1	Revision
10	4	Income from Capital gains – deductions and exemptions
11	4	Income from other sources
12	5	Deemed Income -Set off and carry forward of losses.
13	5	Set off and carry forward of losses.
14	5	Set off and carry forward of losses.
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Demand Analysis & Elasticity of Demand -Introduction
2	2	Demand –Meaning-Definition.
3	2	Factors Influencing Demand .
4	2	Law of Demand.
5	2	Exceptions to the Law of Demand .
6	2	Elasticity of Demand –Types of Elasticity of Demand-Price Elasticity.
7	2	Types of Elasticity of Demand-Income Elasticity-Cross Elasticity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Importance of Elasticity of Demand.
9	2	REVISION
10	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost.
11	5	Total Cost- Total Fixed Cost, and Total Variable Cost .
12	5	Relationship between Average cost & Marginal cost-
13	5	U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21AECM22 : BUSINESS ECONOMICS - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of Market- Classification of market Structure-.
2	1	Perfect Competition-Features-Price Determination under Perfect Competition.
3	1	Meaning of Firm & Industry- Equilibrium of Firm & Industry- Equilibrium of a Firm & industry in short period & long period- Time Element Theory.
4	2	Monopoly-Meaning-Features-Price Discrimination-Output Determination.
5	2	Monopolistic Competition-Features – Price & Output determination under Monopolistic Competition- Product Differentiation- Selling Cost .
6	2	Wastages of Monopolistic Competition-Oligopoly – Sweezy Model – Collusion and Price Leadership-Duopoly- Cournot Model
7	3	Marginal Productivity Theory of Distribution- Theories of Rent- Ricardian Theory of Rent

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Modern Theory of Rent - Quasi Rent.
9	3	Revision
10	4	Theories of Interest: Loanable Fund Theory, Liquidity Preference Theory.
11	4	Theories of Profit: Dynamic Theory, Uncertainty Theory and Innovation Theory
12	5	Capital Budgeting-Meaning-Definition-Features of Capital Budgeting.
13	5	Need for Capital Budgeting -Importance of Capital Budgeting – Forms of Capital Budgeting
14	5	Nature of Capital Budgeting Problem-Demand for Capital-Supply of Capital-Capital Rationing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	CM101Q : FINANCIAL ACCOUNTING - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to accounting, meaning and Definition, Accounting concepts, Advantage and limitations, Journal and ledger, subsidiary books, purchase and purchase return, sales and sales return books
2	1	trail balance introduction, methods of preparation, problem. Final accounts, trading account, Profit and loss and balance sheet problems working
3	1	Final accounts with adjustment problems
4	2	Single entry system introduction meaning and Definition objectives and limitations purpose of single entry system., Differences between single entry system and double entry system
5	2	Ascertainment of Profit, Net worth method, Calculation of opening and closing capital problem solved
6	2	Conversion method, missing items and appropriate account to find them, Calculation missing figure,. Problem solved
7	3	Non trading organization account meaning, format for non trading organization, , Receipts and payments, Preparation of receipts and payments, Problems solved

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Expenditure and income meaning, preparation of expenditure and income account and balance sheet problems solved
9	3	I CIA EXAMINATION
10	4	Consignment , meaning and Definition objectives, consignor consignee, Advantages and limitations format and simple problem solved
11	4	Preparation of consignment transaction, preparation of consignment account, valuation of stock, calculation of Normal loss , and problems solved
12	4	Calculation of abnormal loss of consignment accounts. Unit 5 Joint venture account meaning and Definition. differences between joint venture and partnership account
13	5	Joint venture transaction, journal entries for joint ventures, Separate book for joint ventures account preparation of joint ventures accounts
14	5	Problems solving joint venture account.
15	5	II CIA Examination

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	2
Subject	CM203T : FINANCIAL ACCOUNTING - II	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Average Due Date and Account Current - Average Due Date-meaning of Average due date-Uses of Average due date.
2	1	Basic problems in average due date-calculation of interests. - Interest on drawing of a partner
3	1	account current. - counting of days- methods of calculating interests-simple problems. - Product Method, Red Ink Interest - Daily Balance Method Unit -II Branch - Meaning - Types of branches - difference between branch and Department
4	2	Independent & Dependent Branch - Debtors system - Wholesale branch at invoice price. Preparation of trading account of branches under debtor.(Problems)
5	2	Stock and debtors system - Wholesale branch at invoice price - whole sale branch system and Final account system.(problems)
6	2	Departmental Accounts - Introduction Allocation of expenses - Calculation department purchase Interdepartmental transfers at cost price (Problems)
7	3	Calculation department purchase Interdepartmental transfers at cost price Selling price Preparation of trading account. (Problems)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Interdepartmental transfers at cost price Selling price Preparation of trading and - Profit & Loss account of the department.
9	3	Revision of 1, 2 & 3 units
10	4	Admission and Retirement of Partners - Calculation of Goodwill & Sacrificing ratio - methods of valuation of goodwill - Accounting Treatments Admission of partner
11	4	Retirement of Partner - Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
12	4	Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems) - Dissolution of firm - Journal Entries for dissolution - Treatment of Goodwill on dissolution.
13	5	Modes of dissolution - insolvency of a partner Garner Vs. Murray rule Insolvency of all partner - Piecemeal distribution
14	5	Capital ratio under fluctuating capital method-Proportionate capital - Maximum loss method.
15	5	Revision of 1,2,3,4 & 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAVARIMUTHU I Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM204A : PRINCIPLES OF MARKETING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Market- Meaning- Definition- Classification of markets. Marketing – Meaning, Definition, Evolution and Approaches.
2	1	Modern marketing concepts - 4 P's of Marketing Mix, 4 A's of Marketing and 4 P's of Modern Marketing Management - Meaning-Concepts - Role of Marketing in Economic Development.
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	Meaning- Features-Classification of products- Product Mix- Product Innovation-New Product Development- .
5	2	Product Life Cycle- Branding- Meaning- Advantages and Limitations.
6	2	Packaging – Meaning – Kinds – Labeling – Meaning- Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions Pricing Policies.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedure for price determination- Kinds of Pricing - revision.
9	3	Revision of 1,2 & 3 units
15	5	Revision of 4 & 5 units
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen.
11	4	Wholesalers – Types - Services rendered by wholesalers - Retailers- Types – Requisites – Services rendered by retailers.
12	4	Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
13	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
14	5	Advertising- Meaning and definition– Medias – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy – Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising - ...

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny
2	1	All the World's s Stage
3	1	The Never Never Nest
4	2	Understanding Communication, Greeting and Introducing
5	2	Making Requests, Agreeing and Disagreeing, Seeking and Giving Permission
6	2	Persuading and Debating, Sounds and Symbols in English, Word and Sentence Stress
7	2	Intonation, Telephone Manners

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Writing Skills
9	3	The Gift of the Magi
10	3	Mallala
11	3	The Monkey's Paw
12	4	Effective Listening, Understanding the Audience
13	4	Perceptual Clarity, Channel Awareness, Non Verbal Communication, Pragmatics
14	4	Telecommunications and Tell Interviews
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI C
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	MARABUKAVITHAIYUM PUTHUKAVITHAIYUM - BHARATHIYARIN SENTHAMIZH NAADU
2	1	BHARATHIDASSANIN THAMIZHIYAKKAM - NENCHUPATHAIKKUM NILAI
3	1	ERODU THAMIZHANBANIN VALLUVARIN THAI IRANTHANAALIL
4	1	AREVUMATHIYIN PASUMAI SURATHAVIN SIKKANAM- THURAIMUGAM
5	4	URAINADAI - THIRU VI KA VIN SILAMURAIGAL
6	4	S. RAMAKRISHNANIN KODUGAL ILLA VARAIPADAM- NADAIYAL VENDRA ULAGAM
7	4	LUDOVIC HUBLARIN SALAI THIRANTHU KIDAKIRATHU



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	5	VALLINAM MIGUMIDAM , VALLINAM MIGAVIDAM
10	2	SILAPATHIGARAM - VAZHTHURAI KAATHAI
11	2	MANIMEGALAI - SIRAIKKOTTAM ARAKKOTTAM AAKKIYA KAATHAI
12	2	KAMBARAMAYANAM - JADAYUKAAN PADALAM
13	2	THIRUNAVUKARASARIN THIRU ANGAMALAI VALLALARIN PARASIVA NILAI KUTTRAL KURAVANCHIYIL NAATTU VALAM
14	3	SIRUKATHAIKAL - PUTHUMAIPITHANIN KAALANUM KIZHAVIYUM JAYAKANTHANIN SUMAITHAANGI
15	3	SUJATHAVIN NAGARAM -SIRUKATHAI
8	4	URAINADAI - THIRU VI KA VIN SILAMURAIGAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Indian Women - S.Radhakrishnan (Prose)
2	1	The Solitary Reaper - William Wordsworth (Poem)
3	1	The Purple Dress - O' Henry (Short Story)
4	2	Importance of Effective Communication in Business Context Face to Face Communication with Customers and Visitors Talking to People in Transactional Situations Receiving Visitors
5	2	Booking Hotel Accommodation Small Talk and Telling Stories Group Discussion
6	5	Preparing for Interviews & Taking Interviews Promotion Interviews Standard Business Letters
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Give us a Role Model - Dr.A.P.J Abdul Kalam (Prose) J.R.D's Words of Inspiration to Sudha Murthy ( Story)
9	3	Souvali - Mahasweta Devi (Prose)
10	4	Preparing Agenda for Meetings Writing Minutes of Meetings Notes of Business Conversation
11	4	Business Presentations Negotiation Communication Skills with Public, Fellow, Employees, Supervisors and Customers
12	4	Soft Skills for Team Building Team Maintenance and Task Maintenance Roles Brainstorming and Consensus - Making Communication
13	5	Applying for Jobs Writing Cover Letters for Resume
14	5	II CIA Exam
15	5	Revision and Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Ettuthogai
2	1	1.1 Purananooru
3	1	1.2 Agananooru
4	1	1.3 Kurunthogai 1.4 Nartrinai
5	1	1.5 Kalithogai
6	4	4.3 Keezhkanakkil Neethi Noolgal
7	3	Thirukkural 3.1 kuudaa Ozhukkam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Avai Arithal
9	4	4.2 Paththup Paattu
10	2	2.1 Nedunal vaadai
11	2	2.2 Porunaraatrup Padai
12	2	2.3 Mullaip Paattu
13	2	2.4 Madurai Kaanchi
14	5	Mozhithiran 5.1 Kadithangal 5.2 Neerkaanal
15	5	5.3 Vaanoli Nigazhtchi Thoguppu 5.4 Vaadikkaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KIRUTHIKA S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Economics-Meaning -Definition-Nature& Scope of Business Economics.
2	1	Relationship of Business Economics and other disciplines-Objectives of Business Firm-Business Decision Making Process.
3	2	Demand –Meaning-Definition-Factors Influencing Demand.
4	2	Law of Demand – Exceptions to the Law of Demand .
5	2	Elasticity of Demand –Importance of Elasticity of Demand-Types of Elasticity of Demand.
6	3	Demand Forecasting -Meaning-Objectives of Demand Forecasting-Types of Forecasting.
7	3	Methods of Demand Forecasting-Survey method-Consumer survey Method-Expert opinion method- Statistical Methods-Trend Projection.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Criteria of a good forecasting method-Forecasting Demand for New Products.
9	4	Introduction-Factors of Production-Production Function .
10	4	Importance of Production Function –The Cobb-Douglas Production Function.
11	4	The Law of Variable Proportions – The Law of Returns to Scale.
12	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost-Total Cost- Total Fixed Cost, and Total Variable Cost.
13	5	Relationship between Average cost & Marginal cost-U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Demand Analysis & Elasticity of Demand -Introduction
2	2	Demand –Meaning-Definition.
3	2	Factors Influencing Demand .
4	2	Law of Demand.
5	2	Exceptions to the Law of Demand .
6	2	Elasticity of Demand –Types of Elasticity of Demand-Price Elasticity.
7	2	Types of Elasticity of Demand-Income Elasticity-Cross Elasticity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Importance of Elasticity of Demand.
9	2	REVISION
10	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost.
11	5	Total Cost- Total Fixed Cost, and Total Variable Cost .
12	5	Relationship between Average cost & Marginal cost-
13	5	U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21AECM22 : BUSINESS ECONOMICS - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of Market- Classification of market Structure-.
2	1	Perfect Competition-Features-Price Determination under Perfect Competition.
3	1	Meaning of Firm & Industry- Equilibrium of Firm & Industry- Equilibrium of a Firm & industry in short period & long period- Time Element Theory.
4	2	Monopoly-Meaning-Features-Price Discrimination-Output Determination.
5	2	Monopolistic Competition-Features – Price & Output determination under Monopolistic Competition- Product Differentiation- Selling Cost .
6	2	Wastages of Monopolistic Competition-Oligopoly – Sweezy Model – Collusion and Price Leadership-Duopoly- Cournot Model
7	3	Marginal Productivity Theory of Distribution- Theories of Rent- Ricardian Theory of Rent

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Modern Theory of Rent - Quasi Rent.
9	3	Revision
10	4	Theories of Interest: Loanable Fund Theory, Liquidity Preference Theory.
11	4	Theories of Profit: Dynamic Theory, Uncertainty Theory and Innovation Theory
12	5	Capital Budgeting-Meaning-Definition-Features of Capital Budgeting.
13	5	Need for Capital Budgeting -Importance of Capital Budgeting – Forms of Capital Budgeting
14	5	Nature of Capital Budgeting Problem-Demand for Capital-Supply of Capital-Capital Rationing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM101Q : FINANCIAL ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting-Introduction-Meaning and Definition - Types of Accounting-Accounting concepts and Conventions- Double Entry System- Accounting Rules- Journal-ledger- Trail Balance - Subsidiary Books – purchase, sales, purchase returns and sales returns book.
2	1	Subsidiary Books – cash book with single, double and triple column. Preparation of Profit and loss A/c and Balance Sheet- Advantages and disadvantages of Accounting- Uses of Financial Statement-Accounting of sole trading concern and non-trading concern...
3	2	Single Entry System- Meaning and Definition, features, Difference between Single Entry System and Double Entry System- Difference between Balance Sheet and Statement of Affairs.
4	2	Proforma for statement of affairs of profit or loss, statement of affairs, total debtors, total creditors, bills receivables and bills payables account - Net worth Method - problems.
5	2	Conversion Method problems - Preparation of Trading profit and loss A/c and statement of affairs – problems - revision.
6	3	Accounting for Non-trading concerns- Meaning of Non-trading concerns - Meaning and Definition of Income, Expenditure – peculiar items in Non-trading concerns.
7	3	Meaning and treatment of peculiar items in Non-trading concerns – proforma for Receipts and Payments Account, Income and Expenditure Accounts – problems.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet – revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Consignment- Meaning, definition, features –distinction between sales and consignment - Accounting for consignment transactions - preparation of consignment A/c - journal entries – goods sent on consignment at cost price –problems.
11	4	Accounting treatments for Normal loss and abnormal loss calculation – goods sent on consignment at invoice price – problems - revision.
12	5	Joint Venture- Meaning and Definition, features and benefits - Difference between consignment and joint venture - Difference between partnership and joint venture.
13	5	Journal entries for Joint Venture transactions – specimen ledger accounts – joint venture accounts, co – venture’s capital account – problems.
14	5	Accounting for Joint Venture - when separate book for joint venture is maintained- joint venture accounts, co – venture’s capital account and joint bank account – problems – revision.
15	5	Revision of 4th & 5th units.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM203T : FINANCIAL ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Average Due Date - meaning of Average due date-Uses of Average due date. Basic problems in average due date – when amount is lent in different installments and in single installment - calculation of interests
2	1	Account current- meaning, points to be remembered for counting days - methods of calculating interests – product method, interest table method, daily balance method and varying rate of interests - problems - revision.
3	2	Branch – Meaning, objectives of branch accounts - Types of branches – difference between branch and Department - Preparation of trading account of branches under debtor system – proforma for branch accounts – when goods are invoiced at cost price...
4	2	Preparation of trading account of branches under Stock and debtors system – branch stock account, branch debtors account, branch expenses account, branch adjustments account, branch profit & loss account and goods sent to branch account - when goods ar...
5	2	Preparation of trading account of branches under whole sale branch system and Final account systems - when goods are invoiced at cost price and selling price - revision.
6	3	Departmental Accounts – Introduction, meaning, advantages – distinction between departments and branches – Allocation of expenses – Calculation department purchase Interdepartmental transfers at cost price and Selling price.
7	3	Preparation of trading and Profit & Loss account of the department - Interdepartmental transfers at cost price and Selling price - revision.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Partnership accounts - Accounting Treatments - Admission of partner – Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems).
9	3	Revision of 1,2 & 3 units
10	4	Retirement of Partner – Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems).
11	4	Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems) – revision.
15	5	Revision of 4 & 5 units
12	5	Dissolution of firm – meaning - Modes of dissolution – journal entries – preparation of necessary ledger accounts – realization accounts, capital accounts and bank accounts - problems.
13	5	Insolvency of a partner – calculation of capital ratio under fixed capital method and fluctuation method - Garner Vs. Murray rule - Insolvency of all partner - problems.
14	5	Piecemeal distribution – the order of payment to be adopted while dissolving a partnership firm proportionate capital method- Maximum loss Method - problems – revision.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny by S. Radha Krishnan All the World's a Stage by William Shakespeare The Never Never Nest by Cedric Mount
2	2	Understanding Communication Greetings and Introducing Making Requests
3	2	Agreeing and Disagreeing Seeking and Giving Persuading and Debating
4	2	Sounds and Symbols in English Word and Sentence Stress Effective use of Intonation
5	2	Telephone Manners and Business Situations Handling Customer Orders and Enquiries Handling Complaint Calls
6	3	The Gift of Magi by O Henry Mallala Yousafzai Pakistani Activist by Naomi Blumberg The Monkey's Paw by W. W. Jacob
7	0	Revision

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Effective Listening Understanding the Audience
9	4	Perceptual Clarity Channel Awareness
10	4	Role of Non-verbal Communication Pragmatics
11	4	Handling Delivery and After-Sales Problems Taking Part in Teleconferences
12	4	Tele-interviews
13	5	Note-making
14	5	Report-writing
15	5	Publicity-literature

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to Instructions Pair work and Small Group Work
2	1	Linking words Small Group Discussions
3	2	Skimming and Scanning Checking Facts and Opinions
4	2	Product Description
5	3	Listening to Lectures
6	3	Role Play
7	0	Revision

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening Comprehension One word Substitutes
9	4	Modals Definitions
10	5	Listening to interviews of specialists
11	5	Negotiation and Mind mapping
12	5	The Merchant of Venice
13	5	Note Making
14	5	Developing Story from Pictures
15	5	Creative writing Significance of Written communication in business

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Indian Women The Solitary Reaper The Purple Dress
2	2	Importance of Effective Communication in Business Contexts Face-to-Face Communication with Customers and Visitors Basic Skills for Talking to People in Transactional Situations
3	2	Receiving Visitors Booking Hotel Accommodation Making Small Talk and Telling Stories Group Discussions
4	2	Preparing for Interviews Taking Interviews Promotion Interviews
5	3	Give Us a Role Model Sowali
6	3	Sowali Words of Inspiration
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Preparing Agenda for Meetings Writing Minutes of Meetings
9	4	Making Notes of Business Conversations Making Business Presentations Business Promotions and Language for Advertising
10	4	Negotiating Communication Skills with Public, Fellow Employees, Supervisors and Customers Soft Skills for Team Building
11	4	Team Maintenance and Task Maintenance Roles Brainstorming and Consensus-Making Communication
12	5	Standard Business Letters
13	5	Applying for Jobs, Preparing Resumes Writing Cover Letters for Resumes
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthogai noolgal
2	1	Pura nanooru 50,182
3	1	Aha nanooru 105,154
4	1	Kurunthogai 25,53
5	1	Natrinai 01,172
6	1	Kalithohai 111,133
7	3	Koodavozhukkam 1-10 Avayarithel 1-5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Avayarithel 6-10 Pazhimai 1-10
9	4	Pathnen keezh kanakkil neethi noolgal
10	4	Pathu pattu
11	2	Nedunal vadai
12	2	Porunaratrau padai
13	2	Mullai pattu 24-79
14	2	Mathurai kanji 500-526
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM204A : PRINCIPLES OF MARKETING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Market- Meaning- Definition- Classification of markets - Marketing – Meaning – Definition- Evolution – Approaches - Modern marketing concepts
2	1	4P's Marketing Mix,4A'sMarketing –Modern Marketing Management - Meaning-Concepts - Role of Marketing in Economic Development
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	Meaning- Features-Classification of products- Product Mix- Product Innovation
5	2	New Product Development-Product Life Cycle - Branding- Meaning- Advantages and Limitations.
6	2	Packaging – Meaning – Kinds – Labeling – Meaning- Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions Pricing Policies

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedure for price determination- Kinds of Pricing.
9	3	Revision of Units I, II & III
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen-Wholesalers –Types - Services rendered by wholesalers
11	4	Retailers- Types – Requisites – Services rendered by retailers- Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing
12	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
13	5	Advertising- Meaning and definition– Medias – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy
14	5	Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising.
15	5	Revision of Units IV & V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4,1 ETTUTHOGAI
2	1	1.1 PURANAANOORU - 30,182 1.2 AGANANOORU - 105,154
3	1	1.3 KURUNTHOGAI - 25,53 1.4 NATRINAI - 01,172
4	1	1.5 KALITHOGAI - 111,133
5	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 1-6
6	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 6-11
7	3	THIRUKURAL 3.1.KOODA OLUKKAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 AVAI ARITHAL 3.3 PAZHAIMAI
9	4	4.1 PATHTHUPAATTU -AATRUPPADAI NOOLGAL
10	4	4.1 PATHTHUPAATTU - AGAM, PURAM
11	2	2.1 PATHUPPAATTU - NEDUNAL VAADAI 1-63
12	2	2.2 PORUNAR AATRUPPADAI - 42- 78
13	2	2.3 MULLAI PAATTU 24- 79
14	2	2.4 MATHURAI KAAANJI 500-526
15	5	MOZHI THIRAN 5.1 KADITHANGAL 5.2 NER KAAANAL 5.3 PANBALAI VANOLI NIGALCHI THOGUPPU 5.4 VADIKKKAIALAR SEVAI MAIYAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	LTC101A : TAMIL - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthokai
2	1	Purananuru - 50, 182 Akananuru - 105, 154
3	1	Kunthokai - 25, 53 Natrinai - 01, 172
4	1	Kalithokai - 111, 133
5	4	Pathnen kezhkanakkil neethi noolgal 1-5
6	4	Pathnen kezhkanakkil neethi noolgal 6-11
7	3	Thirukkural - Kooda Ozhukkam, Pazhaimai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Avaiyarithal
9	4	Pathupattu noolgal 1-5
10	4	Parhupattu noolgal 6-10
11	2	Nedunal vadai 1-63
12	2	Porunar Aatru padai 42-78
13	2	Mullai pattu 24-79
14	2	Madurai Kanchi 500-526
15	5	Mozgithiran - Kadithangal, Nerkanal, Panpalai vanoli nigazhchi thoguppu, Vadikkaiyalar sevai maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LTC101A : TAMIL - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. BHARATHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARATHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Ettuthogai
2	1	1.1 Purananooru
3	1	1.2 Agananooru
4	1	1.3 Kurunthogai 1.4 Nartrinai
5	1	1.5 Kalithogai
6	4	4.3 Keezhkanakkil Neethi Noolgal
7	3	Thirukkural 3.1 kuudaa Ozhukkam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Avai Arithal
9	4	4.2 Paththup Paattu
10	2	2.1 Nedunal vaadai
11	2	2.2 Porunaraatrup Padai
12	2	2.3 Mullaip Paattu
13	2	2.4 Madurai Kaanchi
14	5	Mozhithiran 5.1 Kadithangal 5.2 Neerkaanal
15	5	5.3 Vaanoli Nigazhtchi Thoguppu 5.4 Vaadikkaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LILLY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM102T : BUSINESS ORGANISATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Meaning - Characteristics - Objectives - Criteria for Success in Modern Business- Classification of Business
2	1	Profession - Meaning -Distinction between Business and Profession Social Responsibility of Business.
3	2	Forms of Business Organisation - Sole Trader - Partnership firm - concepts of Limited Liability Partnership firm
4	2	Cooperative Societies - Joint Stock Company Definition - Meaning Characteristics - Advantages
5	2	One Man Comp any- Virtual Organization- Private and Public Limited Limitations company- Government Companies - Public Utilities.
7	3	Characteristics of Good Layout - Size of Firm- Meaning - Concept of Size - Measures of Size.
8	2	Revision

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	Business Com bination -Definition- Meaning - Advantages and Limitations
10	4	Types of Combination - Chamber of Commerce - Meaning - Advantages and functions
11	4	Trade Associations - Features and functions.
12	5	MNC- Definition - Distinction among IC, MNC, GC and TNC - Characteristics of MNC's-cultural impact of MNC's.
13	5	Factors contributed for the growth of MNC's - Advantages and Disadvantages of MNC's - Control over MNC's
14	5	Organization De sign and Structure of MNC's - Relationship between Head quarters and Subsidiaries - MNC's in India.
15	4	Revision
6	3	Location of Industry- Meaning- Theories of Location- Factors Influencing Location- Plant Layout- Definition- Meaning- Objectives

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KIRUTHIKA S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Economics-Meaning -Definition-Nature& Scope of Business Economics.
2	1	Relationship of Business Economics and other disciplines-Objectives of Business Firm-Business Decision Making Process.
3	2	Demand –Meaning-Definition-Factors Influencing Demand.
4	2	Law of Demand – Exceptions to the Law of Demand .
5	2	Elasticity of Demand –Importance of Elasticity of Demand-Types of Elasticity of Demand.
6	3	Demand Forecasting -Meaning-Objectives of Demand Forecasting-Types of Forecasting.
7	3	Methods of Demand Forecasting-Survey method-Consumer survey Method-Expert opinion method- Statistical Methods-Trend Projection.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Criteria of a good forecasting method-Forecasting Demand for New Products.
9	4	Introduction-Factors of Production-Production Function .
10	4	Importance of Production Function –The Cobb-Douglas Production Function.
11	4	The Law of Variable Proportions – The Law of Returns to Scale.
12	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost-Total Cost- Total Fixed Cost, and Total Variable Cost.
13	5	Relationship between Average cost & Marginal cost-U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>AECM403S : INDIAN ECONOMY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Economic Development- Meaning & Definition , Economic Growth- Meaning & Definition.
2	1	Difference between Economic Development & Economic Growth.
3	1	Features of a Developing Economy
4	2	National Income- Meaning - Definition
5	2	National Income Concepts- GNP, GDP, NNP, NDP, Per capita Income
6	2	Difficulties in calculating National Income- Double Counting
7	3	Problems faced by Indian Economy

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Poverty & Inequality- causes
9	2	Revision
10	4	Role of Large Scale & Small Scale industries in India
11	4	Large scale Industries in India
12	4	Growth of IT industry in India
13	5	Infrastructure- Meaning -Definition
14	5	Importance of infrastructural development in India
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAVARIMUTHU I Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM306A : PRINCIPLES OF MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning, Definition, Functions of Management. Managerial skills and levels of management.
2	1	Roles of manager, Management as a Science or Art, Approaches to Management.
3	1	Contribution to management by F.W.Taylor, Henry Fayol, Elton Mayo, Peter F. Drucker and C. K. Prahalad - revision.
4	2	Planning – Meaning, Definition, importance, process and types.
5	2	Methods of planning - Objectives- Policies- Procedures - Strategies & Programmes - Obstacles to effective planning.
6	2	Decision making – Steps, Types, Decision Tree - revision.
7	3	Organization - Importance - Principles of Organisation. Delegation & Decentralization – Departmentation, Span of Management. Organizational structure: line & staff and functional - organizational charts and manual-making organizing effective.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Staffing-recruitment -selection-Training, promotion and appraisal - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Function of directing - Motivation - Theories of motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques.
11	4	Communication - Function - Process - Barriers to effective communication.
12	4	Leadership-Definition-Theories and approach to leadership-styles of leadership-Types – revision.
13	5	Meaning, Definition, Nature - Problems of effective coordination.
14	5	Control - Nature - Basic control process - control techniques (traditional and non-traditional)-Use of Computers in managing information – Concepts of keizen – six sigma - revision.
15	5	Revision of 4th & 5th units.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>19GCM31B : Internet technologies</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	What is Internet?-Origin of Internet-IP address-Domain name
2	1	Host Name-DNS-Port Number-WWW-URL-Web server-Web browser-Search Engine-.
3	1	Types of Internet Connections-Hardware Requirements-Internet accounts
4	1	Network-Types of Network-Network Topologies.
5	3	Tables creation in HTML
6	3	Frames in HTML
7	3	Cascading Style Sheet (CSS)-Uses of CSS.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Types of CSS
9	4	Java Script: Java Script Syntax
10	4	Input and Output in Java Script-Data types
11	4	Variables-Arrays-Expressions-Dialog box-Looping structure.
12	5	Uses of Internet: E-mail-Chat-On line Transaction
13	5	Credit card transaction-Debit card transaction
14	5	Net banking-E-Business-Uses of internet in education.
15	5	E-Shopping-Web publishing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE JECINTHA I</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>19GCM31B : Internet technologies</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Introduction to HTML
2	2	History of HTML
3	2	Structure of HTML
4	2	Basic HTML tags
5	2	Basic HTML tags
6	2	Linking HTML document
7	2	Adding images into HTML document



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	List
9	4	Java Script: Java Script Syntax
10	4	Input and Output in Java Script
11	4	Data types
12	4	Variables-Arrays
13	4	Expressions
14	4	Dialog box
15	4	Looping structure.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Commerce</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>ASCM301A : BUSINESS STATISTICS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data
2	1	Classification and Tabulation of Statistical data. Frequency distribution: Simple and cumulative
3	1	Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
5	2	Standard Deviation- Combined standard deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods.
7	3	Correlation: Karl Pearson's coefficient of correlation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient and Concurrent deviation method.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers
11	4	Methods of Constructing Index Numbers – Simple Aggregative Method – Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted
12	4	Aggregative Indices – Quantity and value Indices – Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
13	6	Time Series – Uses and Components. Measurement of Trend: Semi-average method
14	5	Moving Average Method (problems up to 5 yearly) – Least Square Method
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method Link Relative Method.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM305P : CORPORATE ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Issue of shares – Meaning, Definition, Features, Kinds of Companies, Under subscription and over subscription
2	1	Issue of shares at par, at premium, at discount. Calls-in-arrears, Calls-in-advance
3	1	Forfeiture of shares, Reissue of forfeited shares and Balance Sheet
4	2	Redemption of preference shares – Meaning, Provision of the Companies Act Section 80 and 80A,
5	2	Steps involved in redemption of preference shares,
6	2	Preparation of Balance Sheet (Revised Schedule VI).
7	3	Acquisition of Business – Meaning, When new set of books are opened

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Net asset method, Net payment method, Debtors and creditors taken over on behalf of vendors
9	3	When same set of books are continued, When debtors and creditors are not taken over.
10	4	Profits Prior to Incorporation – Meaning, Methods of ascertaining profit or loss prior to incorporation,
11	4	Basis of apportionment of expenses.
12	4	Preparation of Profit and Loss account
13	5	Final accounts of Companies – Meaning, Statement of profit and loss
14	5	Balance Sheet (Part I of Revised Schedule VI), Managerial remuneration.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM408P : CORPORATE ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill-Methods-Average profit method
2	1	Weighted Average-Super profit method-Annuity Method-Capitalization Method. Shares-Introduction-Meaning-Definition
3	1	Factors affecting the valuation of shares-Methods-Netasset method-Yield Method-Fair value method
4	2	Introduction-Meaning-Different kinds of alteration of share capital
5	2	Capital reduction Problems
6	2	Procedure for reduction of share capital.
7	3	Amalgamation-Introduction-Meaning(AccountingStandard14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase-Computation of Purchase Consideration-Lumpsum method-Net payment method-Net asset method-Intrinsicvaluemethod-



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Absorption-Meaning-Methods-Netpaymentmethod-Netassetmethod-Intrinsicvaluemethod
9	3	External Reconstruction-Introduction-Meaning-Methods-Lumpsum method-Net payment method
10	4	Holding Company-Introduction-Meaning-Definition-Subsidiary Company-Meaning-Capital Profit-Revenue Profit
11	4	MinorityInterest-Goodwill/CapitalReserve-UnrealizedProfi
12	4	Preparation of Computation of consolidated Balance sheet
13	5	Introduction-Meaning-Business of banking companies
14	5	Legal Requirements-Preparation of profit and loss accounts
15	5	Preparation of Balance sheet of banking Companies

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>ACM301 : BUSINESS CORRESPONDENCE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Correspondence – Need – Functions
2	1	Kinds of Business Letters
3	1	Essentials of an Effective Business Letter - Layout.
4	2	Business enquiries and replies - Credit and status enquiries – Placing and fulfilling orders - Complaints and adjustments
5	2	Collection letters - Circular letters - Sales letters. Application for employment - References
6	2	Testimonials - Letters of appointment - Confirmation - Promotion - Retrenchment and resignation.
7	3	Bank Correspondence – Insurance Correspondence

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Agency Correspondence
9	3	Correspondence with Shareholders, Directors
10	4	Reports Writing – Agenda, Minutes of Meeting
11	4	Memorandum – Office Order
12	4	Circular – Notes. & UNIT TEST
13	5	Fax – Email – Video Conferencing
14	5	Internet Uses
15	5	Websites and their use in Business.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MERCY ANTHONY</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>ASCM301A : BUSINESS STATISTICS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data – Primary data and Secondary data
2	1	Different methods of collecting primary data – Classification and Tabulation of Statistical data.
3	1	Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
5	2	Standard Deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods
7	3	Correlation: Karl Pearson's coefficient of correlation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient and Concurrent deviation method.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers -Methods of Constructing Index Numbers – Simple Aggregative Method
11	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method
12	4	Weighted Aggregative Indices – Quantity and value Indices – Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only).
13	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method,
14	5	Moving Average Method (problems up to 5 yearly) – Least Square Method (Fitting of straight line).
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	3
Subject	CM305P : CORPORATE ACCOUNTING - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Issue of Shares : Introduction – Meaning – Definition – Features - Kinds of Companies –Under Subscription and Over Subscription
2	1	Issue of shares at par – At Premium – At Discount - Calls-in- arrears - Calls-in-advance - Forfeiture of Shares
3	1	Reissue of Forfeited Shares-Balance Sheet
4	2	Redemption of Preference Shares : Introduction – Meaning - Provision of the Companies Act Section 80 and 80A –Steps Involved in Redemption of Preference Shares and Problems without Balance Sheet
5	2	Redemption of Preference Shares Problems with Balance Sheet
6	3	Acquisition of Business : Introduction – Meaning - When new set of books are opened - Net asset method –Net payment method
7	3	Debtors and Creditors taken over on behalf of vendors –When same set of books are continued.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	When same set of books are not continued and When Debtors and Creditors are not taken over.
9	3	Revision
10	4	Profits Prior to Incorporation : Introduction – Meaning-Methods of Ascertaining profit or loss prior to Incorporation -Basis of Apportionment of Expenses and Simple Problems.
11	4	Profits Prior to Incorporation with Profit and Loss Account
12	4	Profits Prior to Incorporation with Balance Sheet
13	5	Final Accounts of Companies : Introduction - statement of profit and loss , Problems on Final Account with Profit and Loss Account
14	5	Problems on Final Account with Balance Sheet.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	4
Subject	CM408P : CORPORATE ACCOUNTING - II	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valuation of Goodwill : Introduction – Meaning – Definition – Need – Factors Affecting Value of Goodwill –Methods – Problems on Average profit method – Problems on Weighted Average –Problems on Super profit method.
2	1	Problems on Annuity Method – Problems on Capitalization Method. Shares : Introduction – Meaning – Definition – Need – Factors affecting valuation of shares – Methods – Problems on Net asset method.
3	1	Problems on Yield Method – Problems on Fair value method.- Problems on Goodwill and Shares.
4	2	Alteration of Share Capital and Internal Reconstruction : Introduction – Meaning – Different kinds of alteration of share capital – Capital reduction – Procedure for reduction of share capital.
5	2	Problems on Alteration of Share Capital and Internal Reconstruction.
6	3	Amalgamation : Introduction – Meaning (Accounting Standard 14 ) –Types of amalgamation – Amalgamation in the nature of Merger – In the nature of Purchase –Computation of Purchase Consideration.
7	3	Amalgamation : Lumpsum method – Net payment method –Net asset method – Intrinsic value method. Problems on Amalgamation.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Absorption : Meaning – Methods – Net payment method – Net asset Method – Intrinsic value method. Problems on Absorption.
9	3	External Reconstruction : Introduction – Meaning – Methods – Lumpsum method –Net payment method ( Inter company holding excluded). Problems on External Reconstruction.
10	3	Revision
11	4	Holding Company : Introduction – Meaning – Definition – Subsidiary Company – Meaning – Capital Profit – Revenue Profit – Minority Interest – Goodwill / Capital Reserve – Unrealized Profit – Computation of consolidated balance sheet (A...
12	4	Problems on Holding Companies.
13	5	Bank Accounts : Introduction – Meaning - Business of banking companies - Legal Requirements –Preparation of profit and loss accounts (Form ‘B’ of Schedule III) and Balance Sheet (Form ‘A’ of Schedule III).
14	5	Problems on Bank Accounts.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM409A : BANKING LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bank Meaning, Definition, Classification, types of banks and their functions and Services.
2	1	Commercial Banks meaning, definition and functions. Central Bank - meaning, definition and functions
3	1	Universal Banking - Banking Regulations Act 1949 features, objectives and recent amendments.
4	2	Cheque - Essentials of a Cheque - Crossing of a Cheque - General Crossing - Special Crossing -
5	2	Payment of Cheque - Collection of Cheque- Endorsement - Debit Card - Credit Card - Green Card - Smart Card.
6	3	Banker - Customer - General and Special relationship between Banker and Customer -
7	3	Opening of Current - Saving - Recurring - Fixed deposit Accounts - Special types of Accounts

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Minor - Lunatic - Partnership Firm - Joint Stock Company - : Non - Trading Institutions.
9	4	Credit Rating Meaning, Basis, symbols and Benefits. Lending Meaning, Lending and Investment Policies of Commercial Banks.
10	4	Types of loans Secured and Unsecured Loans. Recovery Management Meaning, Advantages and Disadvantages
11	4	Elements of Debt Recovery Procedure of Debt Recovery Non- Performing Assets Meaning
12	5	E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs
13	5	Cash Machine - Electronic Money - Electronic Fund Transfer System (EFT) RTGS -
14	5	Electronic Clearing Services (ECS) - Indian Financial Network - Customer Grievances Redressal and Ombudsman.
15	5	Revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies-forest resources; Deforestation, mining, dams
2	1	water resources, mineral resources, exploitation and extraction and usage.
3	1	Food resources, food problems, overgrazing, pesticide problems, water logging , salinity
4	1	Energy resources: energy needs, renewable and non renewable energy-land resources
5	1	land degradation, landslides, soil erosion and desertification-conserving natural resources
6	3	Biodiversity-genetic, species and ecosystem diversity
7	3	Value of biodiversity-India as a mega diversity nation-hot spots-threats o biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Endangered and endemic species of India.
9	3	In situ and ex situ conservation of biodiversity
10	5	Water conservation, rain water harvesting, water shed management
11	5	Environmental ethics, climate change, global warming, acid rain
12	5	Ozone depletion, nuclear accident and holocaust, waterland reclamation
13	5	Environment protection act, wildlife protection act, Forest conservation act
14	5	Public awareness, population explosion
15	5	Roel of information technology in ennvirnmwnt and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.M. MONIKA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>19GCM42A : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Entrepreneurship: Meaning- Nature-Importance-Theories
2	1	Entrepreneur: Meaning-Definition-Characteristics-Qualities-Types and Roles of an Entrepreneur-Entrepreneur vs Intrapreneur-Factors Promoting an Entrepreneur
3	1	Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Role of entrepreneurs in India's Economic Development
4	2	Meaning-Needs-Objectives –Course Contents and Curriculum
5	2	Phases of EDP-Problems and Constraints of EDP
6	2	Organizations providing Entrepreneurship Development Programmes
7	3	Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques-Project Identification-Project Selection.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedures to Start a New Venture- Project : Meaning- Types- formulation of Project report
9	3	Project Appraisal- Network Analysis.
10	4	Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance
11	4	Various Institutions supporting Entrepreneurial growth - Incentives and Subsidies: Meaning-Needs
12	4	Incentives and Subsidies available to Entrepreneurs– DIC- Industrial Estates
13	5	Introduction- Classification of Enterprises- Memorandum of MSMEs
14	5	Registration of MSMEs- MUDRA Scheme, Prime Minister’s Employment Generation Programme (PMEGP)
15	5	STAND-UP INDIA and START-UP INDIA: Objectives- Purpose-Loan facilities available-Applying Procedures.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM305P : CORPORATE ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Issue of shares – Meaning, Definition, Features, Kinds of Companies, Under subscription and over subscription
2	1	Issue of shares at par, at premium, at discount. Calls-in-arrears, Calls-in-advance
3	1	Forfeiture of shares, Reissue of forfeited shares and Balance Sheet
4	2	Redemption of preference shares – Meaning, Provision of the Companies Act Section 80 and 80A,
5	2	Steps involved in redemption of preference shares,
6	2	Preparation of Balance Sheet (Revised Schedule VI).
7	3	Acquisition of Business – Meaning, When new set of books are opened



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Net asset method, Net payment method, Debtors and creditors taken over on behalf of vendors
9	3	When same set of books are continued, When debtors and creditors are not taken over.
10	4	Profits Prior to Incorporation – Meaning, Methods of ascertaining profit or loss prior to incorporation,
11	4	Basis of apportionment of expenses.
12	4	Preparation of Profit and Loss account
13	5	Final accounts of Companies – Meaning, Statement of profit and loss
14	5	Balance Sheet (Part I of Revised Schedule VI), Managerial remuneration.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>CM616Q : MANAGEMENT ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Management Accounting: Meaning, Definition, Objectives, Nature and Scope – Role of Management Accountant – Relationship between Financial Accounting and Management Accounting,
2	1	Relationship between Cost Accounting and Management Accounting. Analysis of Financial Statements:
3	1	Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.
4	2	Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations –
5	2	Meaning and types of Ratio Analysis – Calculation of Liquidity ratios,
6	2	Profitability ratios and Solvency ratios.
7	3	Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Procedure for preparation of Fund Flow Statement –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Statement of changes in Working Capital –Statement of Funds from Operations –Statement of Sources and Applications of Funds –Problems. Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement–Limitations of Cash Flow Statement...
9	3	Procedure for preparation of Cash Flow Statement–Cash Flow from Operating Activities –Cash Flow from Investing Activities and Cash Flow from Financing Activities –Preparation of Cash Flow Statement according to IAS-7(Indirect Method Only).
10	4	Meaning and definition of budget-essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control–classification of budgets-
11	4	on the basis of time-on the factors of production-on the basis of flexibility–on the basis of functions-zero based budgeting-
12	4	advantages and limitations of budgetary control-preparation of production, sales, materials, material purchase, production cost, cash and flexible budgets
13	5	Marginal costing–definition,features,advantages and limitation
14	5	-break even analysis and break-
15	5	even point–margin of safety.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>19CM619 : CUSTOM, EXCISE AND GOODS AND SERVICE TAX</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Customs act 1962 Objectives of Customs Act Levy and collection of Customs duty classification of goods Goods Exempted from Customs duty
2	1	Searches seizures, confiscation and penalties Central excise duty 1944 Nature of excise duty levy and collection of excise duty
3	1	Type of excise duty valuation of goods clearance of goods clearance of samples registration and exemption from registration
4	1	Unit Test conducted
5	2	Goods and Service Tax Meaning, History of Goods and Service Tax Features, Objectives Challenges
6	2	Types SWOT (Strength, Weakness Opportunities and Threats of Goods and Service Tax) Scope of Goods and Service Tax Difference between Indirect Tax and Goods and Service Tax.
7	2	Advantages and Disadvantages of Goods and Service Tax Impact of GST Effects of Goods and Service Tax in Indian Economy General Constraints in Implementation of GST

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Meaning Importance Types, Person Liable to get Registered Procedure for Resident and Non- Resident
9	3	Enrolment process under Goods and Service Tax Documents required Penalties Cancellation of Registration Revocation of Cancellation of Registration.
10	4	Supply Meaning Place of Supply
11	4	Time of Supply Value of Supply
12	4	Value of Supply Methods of Valuation Goods and Service Tax on Exports.
13	5	Assessment Meaning and types Accounts and Other Records Periods of Retention of Accounts Returns Furnishings of details of Outward Supply Furnishing of Returns First Return
14	5	Claim of Input tax credit and Provisional Acceptance thereof Matching and Reversal and Reclaim at Reduction in Output tax liability .
15	5	Annual Return Furnishing of Final Return Payments of Goods and Service Tax TDS and TCS under Goods and Service Tax Refund of Goods and Service Tax.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>CM511Q : COST ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of cost and costing - Cost accounting –Meaning, Importance and objectives - Cost accountings Vs. Financial Accounting and its Reconciliation of Cost – costing methods. Elements of cost -cost sheet format.
2	1	Preparation of Cost sheet – meaning and purpose of cost sheet – cost sheet with details of overheads, stocks of work in progress and finished goods and sales price computation – problems – revision.
3	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques – Stock levels and EOQ.
4	2	Methods of pricing material issues – FIFO – LIFO – HIFO - problems.
5	2	Labour costing and control - Labour turn over – idle time-over time-remuneration-time rate and piece rate – problems.
6	2	Incentive system - Halsey and Rowan plans – problems - revision.
7	3	Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Process costing - Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages.
11	4	Simple process accounts - treatment of normal loss, abnormal loss and abnormal gain – problems.
12	4	Joint and by -products costing –problems under reverse cost method - revision.
13	5	Contract costing - meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing,
14	5	Simple finished contracts – transfer to profit and loss account - profit on incomplete contracts – Problems - revision.
15	5	Revision of 4th & 5th units.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>ECM620T : INVESTMENT MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Investment Meaning- Investment Vs. Speculation- Investment Vs Gambling.
2	1	Important factors favorable for Investment Program.
3	1	Stages in Investment - Investors Classification.
4	2	Security investment - meaning- Bonds- Preference Shares- Equity shares.
5	2	Derivatives- Options- Swaps- Futures- Mutual funds.
6	3	Non-security investment -meaning- Government Securities- Life Insurance.
7	3	UTI- Commercial banks- Provident fund.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Post office schemes- National Savings Schemes- Fixed Deposit Schemes - revision.
9	3	Revision of 1,2 & 3 units
15	5	Revision of 4 & 5 units
10	4	Return - meaning- Historical and Expected return.
11	4	Risk – meaning, types of risk- measurement of risk.
12	5	Fundamental analysis - meaning- Economy, Industry and Company Specific analysis.
13	5	Company Specific analysis. Technical analysis – meaning - Tools for technical analysis- Charts,.
14	5	Tools for technical analysis- Charts, Support and Resistant level analysis - revision.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	6
Subject	CM618 : PRACTICAL AUDITING	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing , Introduction,Meaning , Definition , Objectives , Scope , Advantages And Limitations . Difference between auditing and Accounting .
2	1	Difference Between Auditing and Investigation. Materiality in Auditing , Audit evidence , Audit Techniques , Classification as to Methods of Approach to work Types and Conduct of Audit-based on structure
3	2	Types and Conduct of Audit- based on conduct of audit. Audit Planning , Audit Engagement Letter , Factors considered before commencing a new audit
4	2	Audit Programme , modification of audit programme, merits and demerits of audit programme , Audit Files , Types of files. Audit Note Book , Working Papers , Vouching of Cash Transactions . Sales at the counter , Sales by travelling agents,Postal sales
5	2	Vouching of cash Transactions . Internal Check Internal Control , Quality control, Budgetary control. Work standards; ,Periodic reporting; Internal check; and , Internal audit. Internal Audit.
6	3	Vouching of trading transaction .cash payment credit side. Verification and valuation of assets and liabilities, objectives, difference between verification and vouching
7	3	Difference between verification and valuation, valuation of assets, classification of assets, importance of valuation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Verification and valuation of assets, verification and valuation of liabilities
9	3	Revision of 1,2 and 3 units
10	4	Audit of limited companies and special audit u/s 233A, necessity of company audit, qualification and disqualification of auditors, appointment, ceiling number of audited
11	4	Remuneration of Auditors – Removal of Auditors – Special Audit u/s 233A – Power of Central Government - Powers and Duties of Company Auditor .
12	4	Powers and Duties of Special Auditor – Contents of Special Audit Report. Investigation – Scope – Objectives – Procedure followed in Investigation –
13	5	Investigation under Companies Act , Powers of Inspectors , Electronic Data Programming System and Characteristics.
14	5	Comparison of Manual and EDP System , Features of Computer Assisted Auditing Techniques [CAAT] , uses of Computer Assisted Auditing Techniques [CAAT].
15	5	Revision of 1,2,3,4 and 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	5
Subject	CM512P : HUMAN RESOURCE MANAGEMENT	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Human Resources Management, Meaning, Definition, nature of HRM, scope of human resources Management it includes control, Acquisition, maintenance and development. Objective of Human resources Management
2	1	Functions of human resources Management, Management Functions, operative functions, procurement, development and maintenance, Importance of HRM, Qualities and role of human resources manager
3	1	Problems and Challenges of HR Manager. Human capital Management. IR-PM-HRM-HCM-HRD Meaning Definition. Jobs and careers in HRM It include HR consultant, training and development manager, HR entrepreneur, Executive recruiter and HR IT specialist
4	2	Human resources Planning, meaning, Definition, Human resources Planning need Human resources Planning process
5	2	Problems in human resources Planning it includes inaccuracy, uncertainty, Time and expenses. Guidelines for making HRP Effective, Top Management support, participation, balanced focus, Information system
6	2	Job analysis meaning, definition, job description, purpose of description, job specifications, uses, differences between job description and job specifications, Techniques of Job analysis job design meaning factors affecting job design
7	3	Methods and Techniques of Job designing, job enrichment and job enlargement, Recruitment introduction meaning and Definition, objectives, Sources of recruitment, Internal and External sources, Evolution of internal sources and external sources. Recruit..

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Methods of recruitment process, Direct method, Indirect method and third party method, interview meaning types of interview, selection, definition, selection process, Differences between recruitment and selection types of test, ability, personality test.
10	4	Training and development, meaning and Definition, nature of training, Need for training, Importance of training as sources of competitive advantage
11	4	Principles of need, Inputs gap in training, Methods of training, merits and demerits, job instructions training, off of the job training, evaluating training effectiveness and need for evaluation, principles of evaluation
9	3	I CIA Examination
12	4	Valuation criteria, Methods of evolution, Executive development, meaning and Definition, objectives of executive development, Importance of Executive development, Development process, Methods of Executive development.
13	5	Performance of potential appraisal introduction, meaning and Definition, purpose of performance appraisal, process of performance appraisal, Methods of performance appraisal, Traditional method and Modern methods
14	5	Modern methods, MBO objectives and limitations 360 degree appraisal cost accounting method Potential appraisal, problems performance appraisal, Techniques of potential appraisal, Evolution appraisal
15	5	II CIA Examination

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>ECM515A : INNOVATION MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Innovation –Introduction, meaning, definition, concepts, nature, importance
2	1	Early-stage of innovation - identifying opportunities-Discovering new points of differentiation.
3	1	Innovation drivers-State –Technology-Types of innovations;Descriptionsoftechnological,marketingandorganization.
4	2	Creativity-meaning, definition, needforandimportanceofcreativity-Factorsinfluencingcreativity.Individual–Self-evaluation of individual–SWOT Analysis-Creating Break throughs in innovation.
5	2	Team ,Group dynamics –Meaning, Characteristics, Stages, Types, Factors affecting group behavior and teambuilding–Leadership–Meaning and nature
6	2	Perception meaning,Definition,Perceptualprocess,Factorsaffectingperceptionandtechniqu estoimproveperception.
7	3	Innovation theories - Major contemporary theories: Disruptive-Networked-Open;

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Alternative theories: Evolutionary-Uncontested- Adaptive-Green Initiatives.
9	4	New Product Development-Criticality of the Value Proposition,
10	4	Differentiation - Paths toMarket-SystemsofIdeation,
11	4	Experimentation and Prototyping–Innovation Labs.
12	5	Transformation of Business-Business processes
13	5	Recognition and Execution strategies-Designing a Winning Innovative Culture
14	5	Patents – Intellectual property – successful innovation case studies(any two).
15	5	Revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>19CM514 : INCOME TAX LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Business - Meaning, Define, Concepts
2	3	Profession -Meaning, Define , Concepts
3	3	Income chargeable to Income Tax under the Head Profits and Gains from Business or Profession
4	3	Computation of Business Income
5	3	Computation of Business Profession
6	3	Guidelines for solving problems
7	3	Problem solving



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Problem solving
9	3	Revision Unit III
10	5	Set off and Carry forward of losses - Introduction
11	5	Deemed Income - Set off and Carry forward of losses
12	5	Guidelines for solving problems
13	5	Problem solving
14	5	Problem solving
15	5	Revision Unit V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LILLY A	Academic Year	2022-2023
Department	Commerce	Semester	5
Subject	19ECM513 : BUSINESS LAW	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Contract Act 1872(Introduction and Essential Elements) Law - Meaning – Objectives – Need for the Knowledge of Law. Law of Contract – Contract-Definition – Agreement and its Enforceability – Consensus Ad Idem
2	1	Essential Elements of a Valid Contract – Classification of Contracts. Offer and Acceptance
3	1	Legal Rules as to Offer and Acceptance – Communication of Offer, Acceptance and Revocation.
4	2	Consideration – Definition – Meaning – Legal Rules as to Consideration – Valid Contracts without Consideration.
5	2	Capacity to Contract - Agreements with Minor – Minor's Liability for Necessaries Free Consent – Coercion
6	2	Undue Influence – Fraud – Misrepresentation – Mistake. Agreements Opposed to Public Policy.
7	3	Special Contracts – Bailment and Pledge – Indemnity and Guarantee- Various Modes of Discharge of Contract

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Breach of Contract – Meaning - Remedies for Breach of Contract – Quasi Contract – Types.
9	2	Revision
10	4	Sale of Goods Act 1930 -Definition of Sale - Sale Vs. Agreement to Sell, Goods - Condition and Warranties
11	4	Warranty vs. Guarantee - Express and Implied Conditions - “Doctrine of Caveat Emptor” - Rights of Unpaid Seller
12	5	Consumer Protection Act 2019 - Definitions -Consumer-Complainant-Complaint– Objectives – Consumer Protection Councils: Central Council and State Council
13	5	Central Consumer Protection Authority (CCPA)-Role of Consumer Disputes Redressal Agencies: District Commission – State Commission
14	5	National Commission- Procedure of Filing Complaint
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>CM511Q : COST ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of cost and costing - Cost accounting –Meaning, Importance and objectives - Cost accountings Vs. Financial Accounting and its Reconciliation of Cost – costing methods. Elements of cost -cost sheet format.
2	1	Preparation of Cost sheet – meaning and purpose of cost sheet – cost sheet with details of overheads, stocks of work in progress and finished goods and sales price computation – problems – revision.
3	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques – Stock levels and EOQ.
4	2	Methods of pricing material issues – FIFO – LIFO – HIFO - problems.
5	2	Labour costing and control - Labour turn over – idle time-over time-remuneration-time rate and piece rate – problems.
6	2	Incentive system - Halsey and Rowan plans – problems - revision.
7	3	Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Process costing - Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages.
11	4	Simple process accounts - treatment of normal loss, abnormal loss and abnormal gain – problems.
12	4	Joint and by -products costing –problems under reverse cost method - revision.
13	5	Contract costing - meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing,
14	5	Simple finished contracts – transfer to profit and loss account - profit on incomplete contracts – Problems - revision.
15	5	Revision of 4th & 5th units.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>ECM620T : INVESTMENT MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Investment Meaning- Investment Vs. Speculation- Investment Vs Gambling.
2	1	Important factors favorable for Investment Program.
3	1	Stages in Investment - Investors Classification.
4	2	Security investment - meaning- Bonds- Preference Shares- Equity shares.
5	2	Derivatives- Options- Swaps- Futures- Mutual funds.
6	3	Non-security investment -meaning- Government Securities- Life Insurance.
7	3	UTI- Commercial banks- Provident fund.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Post office schemes- National Savings Schemes- Fixed Deposit Schemes - revision.
9	3	Revision of 1,2 & 3 units
15	5	Revision of 4 & 5 units
10	4	Return - meaning- Historical and Expected return.
11	4	Risk – meaning, types of risk- measurement of risk.
12	5	Fundamental analysis - meaning- Economy, Industry and Company Specific analysis.
13	5	Company Specific analysis. Technical analysis – meaning - Tools for technical analysis- Charts,.
14	5	Tools for technical analysis- Charts, Support and Resistant level analysis - revision.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VAITIANADANE @ ANBOUNADANE P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>19CM514 : INCOME TAX LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Concepts and definitions of Previous Year, Assessment Year, Persons, Assessee, Income, Gross Total Income – Residential status.
2	1	Exempted Income –Agricultural Income Computation of Salary Income.
3	1	Taxable Allowances, Perquisites and Profit in lieu of salary – Deductions u/s 80C to 80U.
4	2	Income from House Property : Computation of House Property income – Annual value – Deductions, Simple Problems.
5	2	Income from House Property : Advanced Problems
6	3	Income from Business or Profession : Profits & Gains from business.
7	3	Profit & Gain from Profession, Expressly allowed and disallowed deductions.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Depreciation – Block of assets.
9	3	Revision.
10	4	Income from Capital gains and Other Sources : Income from Capital gains – deductions and exemptions.
11	4	Income from other sources –Grossing up of interest.
12	4	Advanced Problems on Income from Capital Gain and Other Sources
13	5	Set off and Carry forward of Losses : Deemed Income - Set off and carry forward of losses.
14	5	Advanced Problems on Set off and Carry forward of losses.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	6
Subject	CM618 : PRACTICAL AUDITING	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing , Introduction,Meaning , Definition , Objectives , Scope , Advantages And Limitations . Difference between auditing and Accounting .
2	1	Difference Between Auditing and Investigation. Materiality in Auditing , Audit evidence , Audit Techniques , Classification as to Methods of Approach to work Types and Conduct of Audit-based on structure
3	2	Types and Conduct of Audit- based on conduct of audit. Audit Planning , Audit Engagement Letter , Factors considered before commencing a new audit
4	2	Audit Programme , modification of audit programme, merits and demerits of audit programme , Audit Files , Types of files. Audit Note Book , Working Papers , Vouching of Cash Transactions . Sales at the counter , Sales by travelling agents,Postal sales
5	2	Vouching of cash Transactions . Internal Check Internal Control , Quality control, Budgetary control. Work standards; ,Periodic reporting; Internal check; and , Internal audit. Internal Audit.
6	3	Vouching of trading transaction .cash payment credit side. Verification and valuation of assets and liabilities, objectives, difference between verification and vouching
7	3	Difference between verification and valuation, valuation of assets, classification of assets, importance of valuation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Verification and valuation of assets, verification and valuation of liabilities
9	3	Revision of 1,2 and 3 units
10	4	Audit of limited companies and special audit u/s 233A, necessity of company audit, qualification and disqualification of auditors, appointment, ceiling number of audited
11	4	Remuneration of Auditors – Removal of Auditors – Special Audit u/s 233A – Power of Central Government - Powers and Duties of Company Auditor .
12	4	Powers and Duties of Special Auditor – Contents of Special Audit Report. Investigation – Scope – Objectives – Procedure followed in Investigation –
13	5	Investigation under Companies Act , Powers of Inspectors , Electronic Data Programming System and Characteristics.
14	5	Comparison of Manual and EDP System , Features of Computer Assisted Auditing Techniques [CAAT] , uses of Computer Assisted Auditing Techniques [CAAT].
15	5	Revision of 1,2,3,4 and 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANDREWS F Dr	Academic Year	2022-2023
Department	Commerce	Semester	5
Subject	CM512P : HUMAN RESOURCE MANAGEMENT	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Human Resources Management, Meaning, Definition, nature of HRM, scope of human resources Management it includes control, Acquisition, maintenance and development. Objective of Human resources Management
2	1	Functions of human resources Management, Management Functions, operative functions, procurement, development and maintenance, Importance of HRM, Qualities and role of human resources manager
3	1	Problems and Challenges of HR Manager. Human capital Management. IR-PM-HRM-HCM-HRD Meaning Definition. Jobs and careers in HRM It include HR consultant, training and development manager, HR entrepreneur, Executive recruiter and HR IT specialist
4	2	Human resources Planning, meaning, Definition, Human resources Planning need Human resources Planning process
5	2	Problems in human resources Planning it includes inaccuracy, uncertainty, Time and expenses. Guidelines for making HRP Effective, Top Management support, participation, balanced focus, Information system
6	2	Job analysis meaning, definition, job description, purpose of description, job specifications, uses, differences between job description and job specifications, Techniques of Job analysis job design meaning factors affecting job design
7	3	Methods and Techniques of Job designing, job enrichment and job enlargement, Recruitment introduction meaning and Definition, objectives, Sources of recruitment, Internal and External sources, Evolution of internal sources and external sources. Recruit..

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Methods of recruitment process, Direct method, Indirect method and third party method, interview meaning types of interview, selection, definition, selection process, Differences between recruitment and selection types of test, ability, personality test.
10	4	Training and development, meaning and Definition, nature of training, Need for training, Importance of training as sources of competitive advantage
11	4	Principles of need, Inputs gap in training, Methods of training, merits and demerits, job instructions training, off of the job training, evaluating training effectiveness and need for evaluation, principles of evaluation
9	3	I CIA Examination
12	4	Valuation criteria, Methods of evolution, Executive development, meaning and Definition, objectives of executive development, Importance of Executive development, Development process, Methods of Executive development.
13	5	Performance of potential appraisal introduction, meaning and Definition, purpose of performance appraisal, process of performance appraisal, Methods of performance appraisal, Traditional method and Modern methods
14	5	Modern methods, MBO objectives and limitations 360 degree appraisal cost accounting method Potential appraisal, problems performance appraisal, Techniques of potential appraisal, Evolution appraisal
15	5	II CIA Examination

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>6</b>
Subject	<b>CM616Q : MANAGEMENT ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Management Accounting: Meaning, Definition, Objectives, Nature and Scope–Role of Management Accountant - Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.
2	1	Analysis of Financial Statements: Types of Analysis –Methods of Financial Analysis–Problems on Comparative Statement analysis –Common Size Statement analysis and Trend Analysis
3	2	Ratio analysis Meaning and Definition of Ratio ,Classification of Ratios, Uses &Limitations–Meaning and types of Ratio Analysis
4	2	Calculation of Profitability ratios- Grass profit ratio, operating profit ratio, operating ratio, Net profit ratio, Calculation of Turnover ratio - Debtor turnover ratio, debtor collection period, working capital turnover, creditor turnover ratio, stock .
5	2	Calculation of Solvency ratios- Cash ratio, liquidity ratio, current ratio, quick ratio, debt equity ratio, proprietary ratio
6	3	Meaning and Definition of Fund Flow Statement–Uses and Limitations of FundFlow Statement–Differences between Cash FlowStatement and FundFlow Statement
7	3	Procedure for preparation of Fund Flow Statement –Statement of changes in Working Capital –Statement of Funds from Operations –Statement of Sources and Applications of Funds-Problems.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Provisions of Indian Accounting Standard-7(IAS7)–Procedure for preparation of Cash Flow Statement–Cash Flow from Operating Activities –Cash Flow from Investing Activities and Cash Flow from Financing Activities –Preparation of Cash Flow Statement...
9	3	Revisions unit 1,2and3
10	4	Budgeting and Budgetary Control- Meaning and definition of budget-essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control–classification of budgets.
11	4	On the basis of time-on the factors of production-on the basis of flexibility–on the basis of functions-zero based budgeting - advantages and limitations of budgetary control.
13	5	Marginal costing – definition, features, advantages and limitation of marginal cost.
15	5	Revisions unit 4 and5
12	4	Preparation of production, sales, materials , purchase, production cost, cash and flexible
14	5	Problems of break even analysis and break-even point–margin of safety.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>5</b>
Subject	<b>ECM515T : INDIAN CAPITAL MARKET</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Capital Market – meaning - structure of Indian capital market – primary and secondary market. Stock exchanges
2	1	functions of stock exchanges – regulatory environment of stock exchanges. Financial instruments and institutions
3	1	Recent trends in Indian capital market. Sensex index Meaning – methods of calculation of Sensex index. Nifty-Meaning.
4	2	Money market – characteristics, importance, instruments and institutions
5	2	defects of Indian money market – steps taken by government to tune up Indian money market
6	3	SEBI-meaning, objectives, functions-Guidelines for Stock Exchanges
7	3	Guideline to set up new stock exchange, Guidelines for trading,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	clearing and settlement. Guideline for opening terminal in abroad.
9	3	I ST CIA EXAM
10	4	Merchant banking – meaning, functions and types. Underwriting – meaning, types and merits
11	4	Venture capital – meaning, features, importance and stages in venture capital financing. Factoring – meaning, characteristics, mechanism
12	4	Types and benefits. Forfeiting – Meaning and Mechanism.
13	5	Mutual funds – meaning, features and types. Portfolio finance – meaning. Credit rating – meaning, features, process and advantages
15	5	II CIA EXAM
14	5	– Companies offering Credit rating services in India– Recent trends in financial services in India.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LILLY A	Academic Year	2022-2023
Department	Commerce	Semester	5
Subject	19ECM513 : BUSINESS LAW	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Contract Act 1872(Introduction and Essential Elements) Law - Meaning – Objectives – Need for the Knowledge of Law. Law of Contract – Contract-Definition – Agreement and its Enforceability – Consensus Ad Idem
2	1	Essential Elements of a Valid Contract – Classification of Contracts. Offer and Acceptance
3	1	Legal Rules as to Offer and Acceptance – Communication of Offer, Acceptance and Revocation.
4	2	Consideration – Definition – Meaning – Legal Rules as to Consideration – Valid Contracts without Consideration.
5	2	Capacity to Contract - Agreements with Minor – Minor's Liability for Necessaries Free Consent – Coercion
6	2	Undue Influence – Fraud – Misrepresentation – Mistake. Agreements Opposed to Public Policy.
7	3	Special Contracts – Bailment and Pledge – Indemnity and Guarantee- Various Modes of Discharge of Contract

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Breach of Contract – Meaning - Remedies for Breach of Contract – Quasi Contract – Types.
9	2	Revision
10	4	Sale of Goods Act 1930 -Definition of Sale - Sale Vs. Agreement to Sell, Goods - Condition and Warranties
11	4	Warranty vs. Guarantee - Express and Implied Conditions - “Doctrine of Caveat Emptor” - Rights of Unpaid Seller
12	5	Consumer Protection Act 2019 - Definitions -Consumer-Complainant-Complaint– Objectives – Consumer Protection Councils: Central Council and State Council
13	5	Central Consumer Protection Authority (CCPA)-Role of Consumer Disputes Redressal Agencies: District Commission – State Commission
14	5	National Commission- Procedure of Filing Complaint
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prathani) Pavalaru Paruchiyhiranar - Kanicharu
4	1	Kanadasan - Thavru - manipu
5	5	Ilakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendiru Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathi - orunal Kazinthzthu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 PALLAVAR KAALAM - ILAKKIYANGAL
2	1	1.1 VALLALAR - THIRUVARUT KODAI (4798, 4799, 4802) 1.2 THIRUNANA SAMBANTHAR MUDHAL THIRUMURAI - THIRU AALAVAUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)
7	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	BC102A : CELL BIOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Prokaryotic and eukaryotic cell. Cell membrane: chemical, structure, composition of Fluid Mosaic Model.
2	1	Carbohydrate and lipids and their function in Fluid Mosaic Model.
3	1	Proteins, types and their function in Fluid Mosaic Model.
4	1	Membrane transport – Types of transport, passive- diffusion, facilitated diffusion, osmosis.
5	1	Membrane transport -active transport-Na <sup>+</sup> -K <sup>+</sup> , ATPase,
6	1	Membrane transport -active transport-sodium potassium pump, Ca <sup>2+</sup> and ATPase pumps,
7	1	Membrane transport -active transport-endocytosis and exocytosis. Symport and antiport. Ion channels, ionophores.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Nucleus – structure, nuclear core complex composition and biochemical function,
9	4	chromosome structure -polytene chromosome with example.
10	4	chromosome structure - lambrush chromosome with example.
11	4	Cell cycles– Phases of cell cycle,
12	4	mitotic cell division-prophase, metaphase, anaphase, and Telophase.
13	4	meiotic division.-prophase-I, metaphase-I anaphase-I and Telophase-I
14	4	meiotic division.-prophase-II, metaphase-II anaphase-II and Telophase-II
15	4	Apoptosis-Pathway and necrosis.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	2
Subject	BC203A : BIOMOLECULES - II	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	classification of lipids-Bloor
2	1	Structure and function of commonly occurring phospholipids (esp. Lecithin, cephalin, phosphatidyl inositol and phosphatidylserines)
3	1	Functions of lipids
4	1	Structure and function of Sphingomyelin,
5	1	Structure and function of , plasmalogen,
6	1	Structure and function of sterols (cholesterol),
7	1	Structure and function of, Glycolipids

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Structure and function of - cerebrosides and gangliosides.
9	5	Structure and functions of biologically important peptides- Glutathione,
10	5	Structure and functions of biologically important peptides- vasopressin& oxytocin.
11	5	. Biologically important proteins- structure and functions of Globular proteins Haemoglobin,
12	5	Biologically important proteins- structure and functions of Globular proteins , Myoglobin ,
13	5	Structure and functions of ,Fibrous protein (Keratins, collagen).
14	5	Structure and functions of ,Fibrous protein-Keratins,
15	5	Structure and functions of ,Fibrous protein- Collagen,

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>ACHP101 : ALLIED CHEMISTRY PRACTICAL - I</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction- Organic analysis
2	1	Solubility, Aromatic / Aliphatic Demo
3	1	Saturation / Unsaturation , Demo
4	1	Special Elements Demo
5	1	Organic compound 1
6	1	Organic compound 2
7	1	Organic compound 3

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Organic compound 4
9	1	Organic compound 5
10	1	Organic compound 6
11	1	Organic compound 7
12	1	Organic compound 8
13	1	Organic compound 9
14	1	Organic compound 10
15	1	Model Examination

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## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21ACH202 : ANALYTICAL CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Purification of solid compounds .
2	1	Crystallisation
3	1	Fractional crystallisation
4	1	Sublimation Purification of liquids
5	1	Experimental techniques of distillation- Fractional distillation
6	1	Vacuum distillation- Steam distillation
7	3	Polarography

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Principle – Instrumentation - Application of Polarography
9	3	Cyclic voltammetry – Principle – Instrumentation -
10	3	Application of CV Polarimetry – Principle - Instrumentation
11	3	Estimation of Glucose
12	5	Water quality parameters – COD, BOD, TDS
13	5	Hardness of water - Temporary and Permanent hardness
14	5	Estimation of hardness (EDTA method) - Water softening (Zeolite Method)
15	5	Demineralization of water (Ion Exchange Method) and Desalination (Reverse Osmosis )

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam
2	1	Vallalar - thiruvarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SELVANATHAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening English speech sounds Meeting people exchanging greetings and taking leave
2	1	Introducing people to others Forgetting - Robert lynd
3	1	Letter writing The sentence Parts of speech
4	2	Speech sounds pure vowels Giving personal information
5	2	Talking to people Mending wall - Robert frost
6	2	Letter writing Nouns clauses and gender Nouns number and case Adjectives Comparison of adjectives
7	3	Diphthongs Taking and leaving messages

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Time and Love - William shakespeare - poem Dialogue writing Pronouns -personal reflexive and emphatic
9	3	Pronouns -Demonstrative, indefinitive,interrogative Distributive pronoun and reciprocal Pronoun relative
10	4	Phonetic transcription Answering the telephone and asking for someone
11	4	Mother Teresa -John Fraser -prose
12	4	The best laid plans - Farrell mitchelv-one act play Reading comprehension
13	4	Verbs Transitive and intransitive Verbs active and passive voices
14	5	Voiced and voiceless sounds Dealung with a wrong number The selfish giant- Oscar wilde
15	5	Verbs mood and tense Concord of the agreement

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>BC101A : BIOMOLECULES - I</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Chemical Bonding- nature and types- covalent bond, ionic bond, co-ordinate bond and non-covalent bonds (Hydrogen, hydrophobic, Vander walls interactions).
2	1	Isomerism - structural isomerism and stereoisomerism.
3	1	Elemental, chemical compositions and properties of water. Carbohydrates: definition, classification – monosaccharides, oligosaccharides and polysaccharides;
4	2	Occurrence, structure and functions of monosaccharides (glucose and fructose). General properties with reference to glucose, anomers, epimers, enantiomers and mutarotation.
5	2	Ring and straight chain structure of glucose (Haworth projection formula). Structure, occurrence, properties and biological importance of disaccharides (sucrose, lactose, maltose). Inversion of sucrose.
6	3	Structure, occurrence, properties and biological importance of polysaccharides: Storage polysaccharides ,starch, glycogen,
7	3	Structure, occurrence, properties and biological importance of polysaccharides: Storage polysaccharides inulin, Structural polysaccharides (cellulose, chitin, pectin)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Heteropolysaccharides (hyaluronic acid, heparin, chondroitin sulphate). Glycoproteins and proteoglycans (Brief study).
9	4	Nucleic acids – Bases, Nucleosides and Nucleotides, Phosphodiester linkage, DNA and RNA,
10	4	Structure –double helical structure of DNA, Properties of DNA – Denaturation, Renaturation, T <sub>m</sub> and Hyperchromicity, Effect of acid & alkali on DNA, Types of DNA,
11	4	Structure of RNA and its major types - tRNA,
12	5	Structure of RNA and its major types - mRNA and rRNA.
13	5	Sequencing of DNA: basic principles of the methods: Sanger dideoxy sequencing (chain-termination method)
14	5	orphyrin nucleus and its classification, functions of Bile pigments
15	5	Biological importance of Heterocyclic compounds- Thiazole, Indole, Pyridine, Pteridine, Pyrrole and Imidazole.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	LT101B : TAMIL - I	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>BC203A : BIOMOLECULES - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Classification of Amino acids based on structure & polarity.
2	2	Essential & Non essential amino acids, Non protein amino acids.
3	2	General properties of amino acids. Titration curve of amino acids.
4	2	Classification of proteins based on size and shape, solubility, composition & functions.
5	3	Peptide bond. General reactions of proteins (Reactions of both NH <sub>2</sub> group & COOH group).
6	3	Structure of proteins- primary, secondary, structure
7	3	Structure of proteins- tertiary & quaternary,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	forces stabilizing the structure of proteins. Ramachandran plot.
9	4	Separation technique of protein-Ammonium salt fractionation,
10	4	solvent fractionation, dialysis
11	4	and lyophilisation.
12	4	Determination of amino acid sequence, N -terminal determination- Edman's
13	4	Dansylchloride method .
14	4	C- terminal determination-enzymatic method,
15	4	solid phase polypeptide synthesis.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	IMMANUEL S	Academic Year	2022-2023
Department	Bio Chemistry	Semester	2
Subject	ACHP202S : ALLIED CHEMISTRY PRACTICAL - II	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Volumetric analysis introduction
2	1	Normality,molarity,molarmass explaine
3	1	Volumetric calculation discussions
4	2	Estimation of Sodium carbonate
5	2	Estimation of oxalic acid
6	2	Estimation of FAS
7	3	Estimation of Ferrous sulphate

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Ferrous sulphate calculation discussions
9	3	FAS calculation discussions
10	4	Estimation of ferrous sulphate revision
11	4	Estimation of FAS revision
12	4	Estimation of Sodium carbonate revision
13	5	Estimation of oxalic acid revision
14	5	Viva questions discussion
15	5	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>ACH101B : ALLIED CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chemical bonding - Types of Bonding - Bonding in Proteins - Structure of Amino acids - Zwitter ion - Isoelectric Point - Structure of Proteins.
2	1	Stereoisomerism - Types, causes of optical activity of Lactic Acid & Tartaric acid – Racemisation - Resolution, Geometrical isomerism – Maleic acid & Fumaric acid.
3	1	Oxidation-Reduction reactions -
4	1	Enzymatic Oxidation and Enzymatic Reduction Reactions.
5	2	Co-Ordination Chemistry: Definition of terms used-
6	2	classification of ligands-Werner's theory
7	2	Biochemistry of iron--Heme proteins-Nature of Heme-Dioxygen Binding-Iron storage and Transport-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Structure and function of hemoglobin, myoglobin.
9	2	BioChemistry of other metals - Zn-CarboxypeptidaseA, Mg-chlorophyll & Co-Vitamin-B12
10	5	Macromolecules-Classification of Polymers
11	5	-Chemistry of polymerization-Addition Polymerisation-
12	5	Condensation Polymerisation-Coordination Polymerisation
13	5	Dendrimers-Biopolymers.
14	5	Bio fuels-First generation of Bio fuels-Second generation
15	5	Bio fuels-Sustainable Bio Fuels-Calorific value of food and fat.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>ACHP202S : ALLIED CHEMISTRY PRACTICAL - II</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Introduction of what are the apparatus need for allied practical
2	1	Basic Demonstration of apparatus
3	1	Basic Demonstration of handling apparatus
4	1	Calculation part
5	1	Colorimetric- Estimation of Iron.
6	2	Estimation of Iron with $\text{KMnO}_4$
7	2	Estimation of Iron with $\text{K}_2\text{Cr}_2\text{O}_7$ .

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Estimation of oxalic acid
9	2	short procedure Model exam
10	2	Estimation of sodium carbonate
11	2	viva question discussion about volumetric titration
12	2	Repeat Estimation of sodium carbonate
13	2	Model Exam 1
14	3	Analysis of water - Determination of hardness of water by complexometric titration
15	3	Model Exam 2

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>ACH101B : ALLIED CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Stereoisomerism - Types
2	1	causes of optical activity of Lactic Acid & Tartaric acid
3	1	Racemisation - Resolution
4	1	Geometrical isomerism – Maleic acid & Fumaric acid
5	3	Thermochemistry-Units of Energy changes
6	3	Exothermic and Endothermic reactions-Heat of reaction
7	3	Different types of the heat of reaction



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Ionic Equilibria-pH scale
9	3	Buffer solution-Types of Buffer Solution
10	3	Calculation of pH values of Buffer mixtures-Henderson equation
11	3	Acid-Base catalysis-Bronsted relation, Enzyme catalysis-Michales-Menton equation
12	4	Development of new drugs-Drug and Disease-Structure and activity-Additives and their role
13	4	Human Gene therapy- Animal and Synthetic Biotechnology
14	4	Mode of action and uses of sulpha drugs - Prontosil, sulphadiazine, and sulphafurazole
15	4	Definition and one example of analgesics, antipyretics, tranquillizers, sedatives, local and general anaesthetics

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ADAIKALARAJ C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21ACH202 : ANALYTICAL CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Chromatography – Types - Column chromatography
2	2	TLC
3	2	instrumentation of Ion Exchange Chromatography
4	3	Polarography – Principle – Instrumentationb
5	3	Appilication of Polarography
6	3	Cyclic voltammetry – Principle – Instrumentation
7	3	Application of CV

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	revision
9	4	General features of spectroscopy-units Rotational spectroscopy-
10	4	the rotational energy levels of molecules-rotational transitions
11	4	Vibrational spectroscopy – the vibrations of molecules – transitions-
12	4	UV-Visible Spectroscopy-Absorption Laws-Selection Rules-Types of Electronic transitions
13	4	chromophore-Auxochrome-Absorption bands and Intensity.
14	4	Woodward-Fieser rules for calculating $\lambda_{\text{max}}$ in Dienes and $\alpha,\beta$ -unsaturated carbonyl compounds.
15	4	rrevision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs 1.Making request and responding to thanks 2. Thanking someone and responding to thanks
2	1	How to be a doctor- Stephen leacock (prose) 1.Precis writing
3	1	Non finite verbs Strong and Weak verbs. Use of wrong preposition
4	2	4 . The Auxiliaries Strong and weak forms in transcription Auguries of Innocence- William Blake Note making
5	2	Unnecessary use of articles The relationship between spelling and sound Report writing
6	3	My visions for India - A.P.J Abdul Kalam Punctuation and capitals Paying compliments, showing appreciation, offering encouragement and responding to them
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Sentence transcription Describing daily routines
9	5	Merchant of Venice- William Shakespeare
10	4	Paragraph writing If - Rudyard Kipling
11	5	Use of wrong tenses The uses of prefixes and suffixes.
12	5	Kiran Bedi - Parmesh Dangwal Asking for directions and giving directions
13	5	Transcribing short passages Personal details
14	5	Revision
15	5	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Bio Chemistry	Semester	3
Subject	LT303A : TAMIL - III	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthava Kap[iyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CELINE HILDA MARY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>19BC305 : ENZYMOLOGY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Enzymes-Introduction, activation energy.
2	2	Michealis menten equation and its significances.determination of Km and Vmax
3	2	Line weaver Burk plot & Eadie-Hofstee plot
4	2	Enzyme inhibition – Competitive, Non-competitive and Uncompetitive inhibition (no derivation), reversible & irreversible inhibition, mixed - partial inhibition (definition) – suicidal inhibition
5	3	Allosterism, nature of allosteric enzymes
6	3	sigmoidal curve, mode of action (sequential & symmetry model),
7	3	Allosteric inhibition and its regulation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Aspartate transcarbomylase and PFK.
9	3	Mechanism of action of chymotrypsin
10	4	Types of catalyst
11	4	Coenzymes structure and functions_NAD,FAD
12	4	Coenzymes_ TPP, PLP
13	4	Cofactors_ functions, proximity effects orientation effect
14	2	Revision_ MM EQUATIONS, Mechanisms of action of enzymes
15	3	Revisions_ Allosteric enzymes, types of catalyst

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	21BCP402 : MAIN PRACTICAL - II	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of proteins by Biuret method
2	2	Estimation of phosphorous –Fiske and Subarrow method
3	3	Estimation of DNA
4	4	Estimation of RNA
5	5	Estimation of proteins by Lowry's method
6	6	Estimation of iron
7	7	Estimation of copper,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Estimation of oxalate,
9	9	Estimation of , potassium dichromate
10	10	Estimation of calcium
11	11	PREPARATION OF BUFFERS Normality, percentage and molarity solutions Saline Bicarbonate buffer Phosphate buffer Tris buffer Acetate buffer
12	12	Determination of pH using pH meter. Determination of pKa value of amino acid using pH meter
13	13	FOOD AND BIOCHEMICAL ANALYSIS Carbohydrate content Protein content
14	14	FOOD AND BIOCHEMICAL ANALYSIS Fibre content Water content Ash content
15	15	BIOCHEMICAL ANALYSIS (Demonstration) Amino acids by paper chromatography Lipids by thin layer chromatography SDS-PAGE electrophoresis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Etuthokai
2	2	Purnanauru Agananuru
3	3	Kurunthokai Natrinai
4	4	Aingurunuru Kalithokai
5	5	Paripaadal
6	6	Keezhkanaku Noolgalil Needhi Noolgal
7	7	Virundhombal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Kalamai Kuriparidhal
9	9	Pathupaatu
10	10	Sirupaanatrupadai
11	11	Mullaipaatu
12	12	Madhuraikaanji
13	13	Patinapaalai
14	14	Patinapaalai
15	15	Pathirikaigalil Seidhi Varaidhal Suruki Varaidhal Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Aimperum kappiyangal
2	4	Aimsiru kappiyangal
3	4	Irattai kappiyam
4	1	Silapathikaram-kunrakkuravai.
5	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(1-60).
6	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(61-129).
7	2	Seevagasinthamani-Naamagal Ilambagam.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai vaanoli nigazhahi thoguppu, vadikaiyalar sevai maiya aluvalar, sutrula vazegate,kadithangal,pothu katturai.
9	4	Pira kappiyangal
10	2	Kambaramayanam-kaikayi suzhvinai padalam.
11	4	Christava kappiyangal.
12	4	Islam kappiyangal.
13	3	Periyapuramam-Ilayankudi mara nayanar.
14	3	Thembavani-Sethayan vetri padalam.
15	3	Seerapuramam-kama padalam.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>19BC408 : ANALYTICAL BIOCHEMISTRY - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Principle, procedure and types of Paper chromatography, Thin layer chromatography
2	1	Gas liquid chromatography, Molecular sieve chromatography, High performance liquid chromatography
3	1	Affinity chromatography and ion exchange chromatography
4	2	Column types.-Phase, reverse phase, ion exchange and size exclusion types and its applications.
5	2	Detectors in chromatography – UV, PDA, electron capture, Thermal conductivity and Fluorescence detector.
6	3	Electrophoresis-Factors affecting electrophoretic mobility, Principle, procedure and applications of Paper,Cellulose acetate.
7	3	Gel electrophoresis:Agarose, Polyacrylamide.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	SDS-PAGE. Isoelectro focusing.
9	4	Radio isotope Techniques: Atomic structure, isotopes, type of radioactive decay,
10	4	half-life, and units of radioactivity. Detection and measurement of radioactivity, Methods based upon ionization - GM counter
11	4	Scintillation counter. Autoradiography, applications of radioisotopes in biology.
12	5	Basic principle and components of Light microscopy, Phase field inverted microscopy,
13	5	fluorescence microscopy. Blotting techniques-Southern,
14	5	Northern, Western Blotting
15	5	Eastern Blotting

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>21BCP402 : MAIN PRACTICAL - II</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of iron,
2	1	Estimation of copper,
3	1	Estimation of oxalate,
4	2	Estimation of potassium dichromate an
5	2	Estimation of proteins by Biuret method
6	2	Estimation of phosphorous –Fiske and Subarrow method
7	3	Estimation of DNA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Estimation of RNA
9	3	Estimation of proteins by Lowry's method
10	4	Normality, percentage and molarity solutions Saline Bicarbonate buffer Phosphate buffer
11	4	Tris buffer Acetate buffer
12	4	Determination of pH using pH meter. Determination of pKa value of amino acid using pH meter
13	5	Carbohydrate content Protein content
14	5	Fibre content Water content Ash content
15	5	demonstration -Aminoacids by paper chromatography Lipids by thin layer chromatography SDS-PAGE electrophoresis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. E. Arokiadoss</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs 1. Making request and responding to request 2. Thanking someone and responding to thanks
2	1	Prose: How to be a Doctor-Stephen Leacock 1. Precis writing 2. Non-Finite verbs 3. Strong and weak verbs 4. The Auxiliaries
3	2	Strong and weak forms in Transcription 1. Inviting, Accepting and Refusing an invitation 2. Apologising and Responding to an apology
4	2	Poem: Auguries of innocence-William Blake 1. Note -making 2. Use of wrong preposition 3. Unnecessary use of Articles
5	3	I listening: 1. Homonyms and similar words 2. Tele-conferences II speaking: 1. Handling customers or clients
6	3	II speaking: 2. Receiving visitors III Reading: 1. Drama: Henry IV (part I)-Play Out A play-William Shakespeare 2. Novel: The Count of Monte Cristo- Alexandre Dumas(chapter 21-30) IV Writing: The use of graphics
7	3	I-CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	I listening: Homophones II speaking: 1.Booking hotel accommodation 2.Making small talk and telling stories
9	4	III Reading: 1.Drama: As you like it-patterns of love William Shakespeare 2.Novel: the count of Monte Cristo-Alexandre Dumas(chapter 31-40) IV writing: Negotiations
10	5	I Listening: Group Discussion
11	5	II speaking: 1.Making Appointments 2. Cancelling and Rescheduling Appointments
12	5	II speaking: 1.Making Appointments 2. Cancelling and Rescheduling Appointments
13	5	III Reading: 1.Drama: Hamlet-churchyard-William Shakespeare 2.Novel: The count of Monte Cristo-Alexandre Dumas (chapter 41-49) IV writing: Writing Review of books
15	5	IV writing: Writing Review of books
14	5	II-CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	AZBC401T : ADVANCED ZOOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INVERTEBRATES - Structural and functional details of phylum-Protozoa-Plasmodium vivax, Helminthes
2	1	Taeniasolium, Annelida-Earthworm
3	1	Digestive system
4	2	CHORDATES- Prochordata – amphioxus.
5	2	Morphological details of chordates- Pisces-shark, Amphibia
6	2	Frog, Reptiles- Calotes, Aves- pigeon, Mammalia- Rat
7	3	CYTOLOGICAL TECHNIQUES AND HUMAN GENETICS – Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles. Mendel's experiments.Mutation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Linkage and Crossing over, Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics
9	3	Hardy Weinberg principle and its application in human population. Genetic engineering and its applications in human being. Pedigree chart and its uses.
10	4	DEVELOPMENTAL BIOLOGY- Gametogenesis in mammals – Spermatogenesis, Oogenesis, Fertilization. Types of Eggs, Pattern of cleavage.
11	4	Blastulation and Gastrulation in chick. Human Reproduction- Puberty, Menstrual cycle, Menopause, Pregnancy and related problems- Parturition and lactation
12	4	Human cloning- Ethics.
13	5	ECOLOGY AND EVOLUTION- Principles and Applications of Environmental biology. ecological succession, ecological niche, Animal relationships, Interspecific-
14	5	Antagonism, symbiosis, Parasitism, Mutualism, commensalisms.
15	5	Lamarckism, Darwinism, mimicry, Fossil and Fossilization.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Ettuthogai
2	1	1.1 Puranaanuru 1.2 Aganaanuru
3	1	1.3 Kurunthogai 1.4 Nartinai
4	1	1.5 Ingurunooru 1.6 Kalithogai
5	1	1.7 Paripaadal
6	4	4.3 Keezhkanaku noolgalil neethi noolgal
7	3	3.1 Arathupaal _ virunthombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Porutpaal _ Kallaamai 3.3 Inbaththupaal _ Kuriparithal
9	4	4.2 Paththupaattu
10	2	2.1 Sirupaanaartrupadai
11	2	2.2 Mullaipaattu
12	2	2.3 Madhuraikaanchi
13	2	2.4 Pattinapaalai
14	2	2.4 Pattinapaalai
15	5	Mozhithiran 5.1 Pathirikaigalil seithi varaithal 5.2 Surukki varaithal 5.3 Nearkaanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANGEL W	Academic Year	2022-2023
Department	Bio Chemistry	Semester	3
Subject	20LE303 : COMMUNICATIVE ENGLISH - III	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience Thanking the gathering and Organizers of an event
2	1	Refund-Fritz Karinthy Publicity Literature
3	2	Giving one's opinion on current national/ Social issues Spotting errors Tryst with Destiny-Jawaharlal Nehru
4	2	Quit India- Mahatma Gandhi The Bear-Anton Chekhov
5	3	Preparing news items of local events and speaking about them Sample news item E- mail writing
6	3	The Hour of Truth - Percival Wilde Gettysburg address- Abraham Lincoln I have a Dream- Martin Luther king
7	123	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Inaugural Address - John F. Kennedy Students Seminar
9	4	Prepared to Die- Nelson Mandela Presentation Skills
10	4	Sorrows of Childhood - Charles Chaplin Resume Writing
11	5	Some useful Expressions Speech Writing
12	5	Minutes Writing
13	5	Marie Curie - Colin Mitchell Sarojini Naidu - Padmini Sengupta
14	45	Revision
15	45	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	AZBC401T : ADVANCED ZOOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Structural and functional details of phylum-Protozoa- Plasmodium vivax,
2	1	Helminthes-Taeniasolium, Annelida-Earthworm- Digestive system,
3	2	Prochordata – amphioxus- Morphological details of chordates- Pisces-shark,
4	2	Amphibia -Frog, Reptiles- Calotes, Aves- pigeon, Mammalia- Rat.
5	3	Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles. Mendel's experiments. Mutation, Linkage and Crossing over,
6	3	Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics- Hardy Weinberg principle and its application in human population.
7	3	Genetic engineering and its applications in human being. Pedigree chart and its uses.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Gametogenesis in mammals – Spermatogenesis, Oogenesis, Fertilization.
9	4	Types of Eggs, Pattern of cleavage, Blastulation and Gastrulation in chick.
10	4	Human Reproduction- Puberty, Menstrual cycle, Menopause,
11	4	Pregnancy and related problems-Parturition and lactation- Human cloning- Ethics.
12	5	Principles and Applications of Environmental biology. ecological succession, ecological niche,
13	5	Animal relationships, Interspecific- Antagonism, symbiosis, Parasitism, Mutualism, commensalisms.
14	5	Lamarckism, Darwinism,
15	5	mimicry, Fossil and Fossilization.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	AZBP401 : ADVANCED ZOOLOGY PRACTICAL	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Dissection of digestive system
2	1	body setae in earthworm
3	1	Prawn- Appendages
4	1	Estimation of Unit metabolism of fish
5	1	Squash preparation of onion root tip for mitosis.
6	1	Human pedigree construction for a family data.
7	1	Mouth parts- Honey bee

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Mouth parts- Mosquito
9	1	T.S. of Chick embryo- 24hrs, 48hrs,
10	1	T.S. of Chick embryo-72hrs and 96hrs,
11	1	Taeniasolium, Placoid scale,
12	1	T.S. of Pituitary gland,
13	1	Adrenal gland,
14	1	Thyroid gland,
15	1	Testis and Ovary.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>AZBC401T : ADVANCED ZOOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INVERTEBRATES - Structural and functional details of phylum.
2	1	Protozoa-Plasmodium vivax, Helminthes-Taeniasolium.
3	1	Annelida-Earthworm- Digestive system.
4	2	CHORDATES- Prochordata – amphioxus-
5	2	Morphological details of chordates- Pisces-shark, Amphibia - Frog.
6	2	Reptiles- Calotes, Aves- pigeon, Mammalia- Rat.
7	3	CYTOLOGICAL TECHNIQUES AND HUMAN GENETICS – Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Mendel's experiments. Mutation, Linkage and Crossing over, Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics.
9	3	Hardy Weinberg principle and its application in human population. Genetic engineering and its applications in human being. Pedigree chart and its uses.
10	4	DEVELOPMENTAL BIOLOGY- Gametogenesis in mammals – Spermatogenesis, Oogenesis, Fertilization.
11	4	Types of Eggs, Pattern of cleavage, Blastulation and Gastrulation in chick. Human Reproduction.
12	4	Puberty, Menstrual cycle, Menopause, Pregnancy and related problems-Parturition and lactation- Human cloning- Ethics.
13	5	ECOLOGY AND EVOLUTION- Principles and Applications of Environmental biology. ecological succession.
14	5	Ecological niche, Animal relationships, Interspecific- Antagonism, symbiosis, Parasitism, Mutualism, commensalisms
15	5	Lamarckism, Darwinism, mimicry, Fossil and Fossilization.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAJI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>AMBC302 : ALLIED MICROBIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - History and scope of Microbiology - Shape and Size of bacterial cells
2	1	Structure of bacterial cell -Structure and functions of cell organelles (Cell wall, structures found outside the cell wall and within the cell wall) - Structure of Endospore
3	2	Microscopy - Simple, Compound, Dark field, Phase contrast, Fluorescent, Electron Microscopes -
4	2	Staining – Classification Microorganisms - Haeckel's, Whitaker's - Prokaryotes and eukaryotes
5	2	Taxonomical ranks - Binomial Nomenclature - Characteristics used in Taxonomy
6	3	Sterilization - Physical agents - Moist heat, Dry heat, Radiation, Filtration
7	3	Chemical agents - Phenols and phenolic compounds Alcohols, Gaseous agents

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Antibiotics – Classification, Mode of action - Antifungal and antiviral agents – examples
9	4	Motility of bacteria - Nutrient requirements of microorganisms - Growth factors - Nutritional types
10	4	Culture media - Pure culture - Microbial growth - Growth curve
11	4	- Measurement of microbial growth - Continuous culture - Environmental factors affecting growth
12	4	Bacterial reproduction
13	5	Brief description of important groups of bacteria - Archaeobacteria, Spirochetes, Mycoplasma, Actinomycetes,
14	5	Photosynthetic bacteria, Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria - General characteristics of Algae, Fungi, Protozoa and viruses
15	5	- Human diseases and the pathogen involved – Role of microorganisms in the environment

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LEEMA ROSE MARY D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19EBC63B : HUMAN PHYSIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Respiration, types of Respiration, Respiratory system of man,
2	3	Transport of O <sub>2</sub> , Oxygen Dissociation curve, Role of Hemoglobin in of O <sub>2</sub> transport
3	3	Transport of CO <sub>2</sub> , Role of Hemoglobin in of CO <sub>2</sub> transport, Bohr Effect, Chloride shift
4	3	Excretory system of man, structure of nephron,
5	3	Mechanism of urine formation – Ultra filtration, Re absorption and Secretion
6	3	revision
7	3	revision

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Introduction, types of muscle, Ultra structure of skeletal muscle - light band, dark band, Sarcomere,
9	5	Muscle proteins-thick filament-myosin, thin filament - actin, tropomyosin and troponin.
10	5	.Muscle contraction – types of muscle contraction and theories of muscle contraction,
11	5	Molecular basis of skeletal muscle contraction.
12	5	Bone structure and formation.
13	5	Ligaments and tendons
14	3	revision
15	5	revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	5
Subject	19BC510 : IMMUNOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Immune system: Introduction and characteristics, classification of immunity-innate and acquired immunity.
2	1	Primary and secondary lymphoid organs. Structure and functions of immune cells [macrophage, T cell, B cell, NKC, dendritic cell and APC
3	1	Immune response - T and B cell mediated immune response
4	1	B & T lymphocytes cooperation. Phagocytosis and pinocytosis.
5	3	Complement components- complement cascade-classical, alternate and lectin pathway, complement deficiencies.
6	3	Major Histocompatibility Complex (MHC) - Structure and function of MHC-I, II & III molecules. Role of MHC antigen in immune response.
7	3	Transplantation – Graft and its types, mechanism of graft rejection in skin, graft versus host reaction and Immunosuppressive drugs.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Allergy and hypersensitivity- Introduction, types
9	4	Allergy and hypersensitivity- type I, and their clinical manifestations,
10	4	Allergy and hypersensitivity- type - II, and their clinical manifestations,
11	4	Allergy and hypersensitivity- type - III and their clinical manifestations,
12	4	Allergy and hypersensitivity- type - IV and their clinical manifestations,
13	4	Autoimmune diseases-myasthenia gravis, rheumatoid arthritis, thyrotoxicosis and SLE.
14	4	Autoimmune diseases-myasthenia gravis, rheumatoid arthritis, thyrotoxicosis and SLE.
15	4	Immuno tolerance- Mechanism

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	6
Subject	19EBC63B : HUMAN PHYSIOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Composition of blood – types of blood cells, morphology and its functions,
2	1	Blood groups -ABO group and Rh type.
3	1	Composition of lymph,
4	1	circulatory system: Heart - basic anatomy, cardiac cycle, cardiac output and pace maker.
5	1	Heart - cardiac cycle
6	1	cardiac output
7	1	pace maker.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Definition, digestive system - Anatomy of digestive system
9	2	Anatomy of digestive system
10	2	chemical process of digestion.
11	2	Salivary digestion
12	2	gastric digestion - Mechanism of Hcl secretion in stomach, pancreatic digestion, intestinal
14	2	, Digestion and absorption of carbohydrates, proteins, and lipids.
15	2	Digestion and absorption of proteins, and lipids.
13	2	pancreatic digestion, intestinal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>5</b>
Subject	<b>19EBC52A : PLANT BIOCHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Discovery and definition of plant cell, cell wall, plasmodesmata, meristematic cells and secretory systems.
2	1	Mechanism of absorption- Ion exchange, passive absorption & Active absorption.
3	1	The carrier concept and Donnan membrane equilibrium. Cytochrome pump theory
4	2	Structure, biosynthesis, mode of action and physiological effects of auxins, Gibberellins
5	2	Structure, biosynthesis, mode of action and physiological effects of Cytokinins, Biochemistry of seed dormancy, seed germination, fruit ripening and senescence.
6	3	Introduction, definition of Photosynthesis, Structure & synthesis of chlorophyll, phycobilins and carotenoids.
7	3	Photosynthesis: photosystem I & II, Light absorption, Hill reaction, Red drop & Emerson's enhancement effect.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cyclic and non-C3, C4 & CAM. Photosynthesis-factors and regulation. Glyoxalate cycle.
9	4	Introduction to Secondary metabolites in plants – classification & function of alkaloids
10	4	Secondary metabolites in plants – classification & function of Terpenes
11	4	Secondary metabolites in plants – classification & function of tannins, lignin and pectin.
12	4	Stress metabolism in plants - Environmental stresses, salinity, water stress, heat, chilling and their impact on plant growth, criteria of stress tolerance.
13	5	Nitrogen fixing organisms: Structure and mechanism of action of nitrogenase: Rhizobium symbiosis.
14	5	Leghaemoglobin, strategies for protection of nitrogenase against the inhibitory effect of oxygen, nif genes of Klebsiella pneumoniae and their regulation
15	5	Ammonia assimilation by glutamine synthetase, glutamine oxoglutarate amino transferase (GS-GOGAT). Nitrite and nitrate reductase.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19EBC64B : MEDICAL LABORATORY TECHNOLOGY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit of measurement, reagent preparation and laboratory calculation. Code of ethics of laboratory technician, precautions taken to prevent hazards, handling and storage of chemicals.
2	1	Types of biological specimen collection and procedure: blood, urine, sputum, throat swab, stool and CSF.
3	1	Smear preparation and its types, calibration, measurements, quality control & GLP.
4	1	Basic lab instruments - Centrifuge, incubator, colorimeter, oven and pH meter.
5	3	Histopathology: Tissue cutting, fixation (Cryo preservation and formalin), embedding,
6	3	Types of micro tome, tissue slicing by micro tome,
7	3	slide mounting and staining techniques: types

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To identify carbohydrates, proteins & lipids by using Special staining.
9	5	Culturing of organisms from various specimens, culture media
10	5	antibiotic sensitivity test (pus, urine)
11	5	antibiotic sensitivity test (blood, sputum, )
12	5	antibiotic sensitivity test (throat swab)
13	5	Differential staining (Gram stain) Introduction, principle, reagents & materials required, procedure, result
14	5	Ziehl-Neilson staining method (TB, Mycobacterium leprae)
15	5	Safety procedure in microbiological technique

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>5</b>
Subject	<b>19BC509 : MOLECULAR BIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	C value paradox, Cot value, organization of chromosomes
2	1	nucleosomes and euchromatin, heterochromatin & centromeres
3	1	telomeres and central dogma of molecular biology
4	2	DNA-Highly repetitive, moderately repetitive
5	2	unique DNA sequences. Satellite DNA, Transposons
6	3	post transcriptional modification of mRNA, tRNA
7	3	post transcriptional modification of rRNA.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Genetic code-features
9	4	deciphering of genetic code
10	4	Wobble hypothesis
11	4	Inhibitors of protein synthesis,
12	4	post translational modification
13	5	DNA repair-photo reactivation,
14	5	Excision repair, recombination,
15	5	SOS and Mismatch repair

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19EBC63B : HUMAN PHYSIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Definition, digestive system: chemical process of digestion.
2	2	Salivary digestion
3	2	gastric digestion -
4	2	Mechanism of Hcl secretion in stomach
5	2	pancreatic digestion,
6	2	intestinal digestion,
7	2	Role of bile salt in Digestion,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Revision for the finished topics
9	2	Revision for the finished topics
10	2	Digestion and absorption of carbohydrates,
11	2	Digestion and absorption of proteins
12	2	Digestion and absorption of lipids
13	2	Revision
14	2	Revision
15	2	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V.Ramalingam Pillai - Tamilan Idayam (Prarthanai) Pavalalararu Parunchithiranar - kanicharu
4	1	Kanadasan - Thavaru - Manipu
5	5	Ilakanam - Mathal Ezuthu, sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val Ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Thamizhanban - Vetrimgam Vairamuthu - Suthanthiram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendriu Kacithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathai - Orunal Kazinthathu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VANATHAIYAN M Dr.	Academic Year	2022-2023
Department	Bio Chemistry	Semester	2
Subject	21LT02 : TAMIL - II	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiyavaralaru - Palaverkala Ilakiyangal
2	1	Vallalar - Thiruvarkodai Thiruganasambanthar - Muthal Thirumozhi - Thirualavai
3	1	Pariyazvar - Thirupalandu Namazvar - Patham Thiruvazmozhi
4	1	Vannakalangiyapulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Urainadai - Thortamum Valarchiyum
6	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (1 - 6)
7	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (7 - 12)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (13 - 18)
12	4	Ilakiyavaralaru - Sidhar Ilakiyam Arimugam
13	2	Arunagirinather - Thirupugaz (Thiruchendur) Patinathar - Thiruthillai (1 - 5)
14	2	Patinathar - Thiruthillai (6 - 10) Sivavakiyar _ Padal 9.10.11
15	5	Ilakanam Yapilakanam - Ezuthu, Asai , Seer, Adi Vatruporul Vaipu Anni
9	4	Ilakiyavaralaru - Thortamum Valerchiyum
10	2	Palapadai Sokanatha Pulaver - Alager Killaividu Thoothu
11	2	Pagazhikoother - Thirucendur Murugan Pillaithamizh Kumaragurubarer - Madurai Meenatchiyammai Irataimanimalai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	2
Subject	BC203A : BIOMOLECULES - II	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	classification of lipids-Bloor
2	1	Structure and function of commonly occurring phospholipids (esp. Lecithin, cephalin, phosphatidyl inositol and phosphatidylserines)
3	1	Functions of lipids
4	1	Structure and function of Sphingomyelin,
5	1	Structure and function of , plasmalogen,
6	1	Structure and function of sterols (cholesterol),
7	1	Structure and function of, Glycolipids

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Structure and function of - cerebrosides and gangliosides.
9	5	Structure and functions of biologically important peptides- Glutathione,
10	5	Structure and functions of biologically important peptides- vasopressin& oxytocin.
11	5	. Biologically important proteins- structure and functions of Globular proteins Haemoglobin,
12	5	Biologically important proteins- structure and functions of Globular proteins , Myoglobin ,
13	5	Structure and functions of ,Fibrous protein (Keratins, collagen).
14	5	Structure and functions of ,Fibrous protein-Keratins,
15	5	Structure and functions of ,Fibrous protein- Collagen,

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>ACHP202S : ALLIED CHEMISTRY PRACTICAL - II</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Demonstration
2	1	Estimation of sodium carbonate
3	11	Taught amount calculation
4	1	Estimation of Iron using $\text{KMnO}_4$
5	1	Taught amount calculation
6	1	Estimation of oxalic acid
7	1	Estimation of oxalic acid



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Estimation of Iron with $\text{KMnO}_4$ and $\text{K}_2\text{Cr}_2\text{O}_7$
9	1	Colorimetric- Estimation of Iron.
10	1	Colorimetric- Estimation of Iron.
11	1	Colorimetric- Estimation of Iron.
12	1	Analysis of water - Determination of hardness of water by complexometric titration.
13	1	Analysis of water - Determination of hardness of water by complexometric titration.
14	1	Analysis of water - Determination of hardness of water by complexometric titration.
15	1	MODEL EXAMINATION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>ACH101B : ALLIED CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Thermochemistry-Units of Energy changes-Exothermic and Endothermic reaction -
2	3	Heat of reaction- Different types of the heat of reaction
3	3	Heat of reaction- Different types of the heat of reaction
4	3	IonicEquilibria-pH scale-Buffer solution
5	3	Types of Buffer Solution-Calculation of pH values of Buffer mixtures-
6	3	Henderson equation Acid-Basecatalysis-Bronsted relation-
7	3	Enzyme catalysis-Michales-Menton equation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Macromolecules-Classification of Polymers---
9	5	Chemistry of polymerization
10	5	Addition Polymerisation
11	5	Condensation Polymerisation-
12	5	Coordination Polymerisation-
13	5	Dendrimers-Biopolymers.
14	5	Dendrimers-Biopolymers.
15	5	Dendrimers-Biopolymers.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANITHA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>BC203A : BIOMOLECULES - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Classification of proteins based on size
2	3	Classification of proteins based on shape
3	3	Classification of proteins based on solubility
4	3	Classification of proteins based on composition & functions
5	3	Peptide bond. General reactions of proteins (Reactions of both NH <sub>2</sub> group & COOH group).
6	3	Separation technique of protein-Ammonium salt fractionation, solvent fractionation, dialysis and lyophilisation.
7	3	Separation technique of protein- dialysis and lyophilisation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Structure of proteins- primary & secondary
9	4	Structure of proteins- tertiary & quaternary
10	4	forces stabilizing the structure of proteins
11	4	Ramachandran plot.
12	4	Determination of amino acid sequence, N -terminal determination- Edman's and Dansyl chloride method
13	4	Determination of amino acid sequence, C- terminal determination-enzymatic method,
14	4	Introduction to solid phase polypeptide synthesis.
15	4	solid phase polypeptide synthesis.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Irupatham nootrandu kavingargal.
2	1	Bharathiyar-Kaani Nilam Vendum, Bharathidasan-Nattiyal Nattuvom.
3	1	Namakkal kavignar-Tamizan Idhayam.Perunchithirananar-Kanisaru.
4	1	Kannadasan-Tavaru Mannippu,Suratha-Malatai.
5	5	Mudhal Ezhuthukal,Sarbu Ezhuthukal.
6	5	Vallinam Migum Idangal,Vallinam Miga Idangal.
7	3	Puthukavithai thotramum valarchiyum.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi-pootha neruppu,Meera-pillaitamil.
9	2	Erode Tamilanban-Vetri mugam, Vairamuthu+Suthanthiram.
10	2	Cirpi-Abdul kalam in veenai.
11	2	Haikku Kavitaikal.
12	2	Senrya Kavitaikal.
13	3	Sirukathi thotramum valarchiyum.
14	4	Kadavulum kandasamy pillaiyum,Oru naal kazhinthathu.
15	4	Kalanum kizhaviyum,Akalyai.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam Ilakkiyangal
2	1	Vallalar - Thiruvart kodai, Thiru Gnana Sampanthar - Thiru Aalavayum
3	1	Periyazhvar - Thirupallandu, Nammazhvar - Patham thirivai mozhi
4	1	Vanna kalanchiya pulavar - Kuthpu nayaga puranam Theen vilakkam, Vethanagam pillai - Neethu nool
5	4	Urainadai thotramum valarchiyum
6	3	Urainadai - Pavanaar nokkil Arinar perumakkal 1-5
7	3	Urainadai - Pavanaar nokkil Arinar perumakkal 6-10



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai - Pavanaar nokkil Arinar perumakkal 11-16
9	4	Nayakkar kala Ilakkiyangal
10	2	Pala pattadai sokkanatha pulavar - Azhagar killai vidu thoothu
11	2	Pakazhi koothar - Thiruchendur murugan pillai tamizh muthaparuvam, kumara kuruparar- Marurai Meenatchiyammai Irattai manimalai
12	4	Sidhar Ilakkiam - Arimugam
13	2	Arunagiri Nathar - Thuruppugazh, Siva vakkiyar Padalgal
14	2	Pattinathar -thiruthillai
15	5	Yappilakanam - Ezhuthu, Asai, Seer, Adi, Vetru poruvaippu ani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>PELS01A : PROFESSIONAL ENGLISH FOR LIFE SCIENCES - I</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening- source passage-1 The Indian Scientist Who Found why The Sea is Blue
2	1	Speaking - Source passage Tipu Sultan - The Original Rocket Man of India
3	2	Reading - Source passage - 3 Marle Curle
4	2	Writing - Source passage - 2 The Invention of Vaseline
5	3	Listening - Source passage Process Description
6	3	Speaking - source passage role play an introduction to robotics and artificial intelligence
7	0	I CIA EXAMINATIONS

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Reading - Source passage
9	4	Skimming / Scanning
10	4	Writing - Source passage The History of Matches and Lighters
11	5	Source passage - Critical thinking skill
12	5	Kalpana Chawla: Biography
13	5	Kalpana Chawla: Columbia disaster
14	0	II CIA EXAMINATIONS
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
7	3	I CIA EXAMINATIONS
1	1	Triphthongs Making Requests Thanking Responding to Someone How to be a Doctor
2	1	Precise Writing Non Finite verbs Strong and weak verbs The Auxiliaries
14	5	II CIA EXAMINATIONS
15	5	Revision
3	2	Transcription Inviting and accepting invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Article

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	The Relationship between spelling and sound Paying Compliments
8	4	Sentence Transcription Describing Daily Routines
6	3	Asking Permission My Visions for India
9	4	If - Poem The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for directions and giving directions
12	5	Kiran Bedi
13	5	Use of wrong tenses Use of prefixes and suffixes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	IMMANUEL S	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	ACHP101 : ALLIED CHEMISTRY PRACTICAL - I	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of organic compounds
2	2	Solubility ,Saturated ,un saturated demo
3	3	Aromatic,Aliphatic compound ,Special elements test Demo
4	4	Functional groups demo
5	5	Organic compound-1
6	6	Organic compound-2
7	7	Organic compound-3

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Organic compound-4
9	9	Organic compound-5
10	10	Organic compound-6
11	11	Organic compound-7
12	12	Organic compound-8
13	13	Organic compound-9
14	14	Organic compound-10
15	15	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>BC203A : BIOMOLECULES - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Classification of amino acids based on structure
2	2	Classification of amino acids based on structure continuation
3	2	Classification of amino acids based on metabolism and polarity
4	2	Essential and non-essential amino acids Non-Protein amino acids
5	2	General properties of amino acids
6	2	Titration curve of amino acids
7	5	Biologically important proteins, structure and functions of proteins (Hemoglobin)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Biologically important proteins, structure and functions of proteins (Hemoglobin)
9	5	Biologically important proteins, structure and functions of proteins (Hemoglobin)
10	5	Biologically important proteins, structure and functions of proteins (Myoglobin)
11	5	Biologically important proteins, structure and functions of proteins (Myoglobin)
12	5	Biologically important proteins, structure and functions of proteins (Myoglobin)
14	5	Revision
15	2	Revision
13	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21ACH202 : ANALYTICAL CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Purification of solid compounds- Crystallization
2	1	Purification of solid compounds- Sublimation
4	1	Experimental techniques of distillation- Vacuum distillation
5	1	Experimental techniques of distillation- Steam distillation
6	3	Polarography – Principle – Instrumentation
7	3	Application of Polarography
8	3	Cyclic voltammetry – Principle – Instrumentation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Application of CV
10	3	Polarimetry – Principle - Instrumentation-Application – Estimation of Glucose
11	5	Water quality parameters
12	5	Temporary and Permanent hardness
13	5	Estimation of hardness (EDTA method)
14	5	Water softening (Zeolite), Demineralization (Ion Exchange)
15	5	desalination (RO) and revision
3	1	Purification of solid compounds-Fractional crystallization

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>21ACH202 : ANALYTICAL CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Theory of Errors
2	1	The idea of significant figures and its importance with examples
3	1	Precision, Accuracy
4	1	methods of expressing accuracy
5	1	Error analysis – minimizing errors – method of expressing precision
6	1	average deviation – Standard deviation – Confidence limit
7	5	Chromatographic technique

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	the principle of chromatography
9	5	definition of the terms – Rf value
10	5	paper chromatography
11	5	principle and applications
12	5	thin layer chromatography
13	5	theory and applications - Column chromatography
14	5	principle and applications
15	5	ion exchange chromatography – principle, types and applications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHAKIARAJ D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>ACH101B : ALLIED CHEMISTRY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Chemical bonding - Types of Bonding
2	1	Bonding in Proteins - Structure of Amino acids - Zwitter ion - Isoelectric Point - Structure of Proteins.
3	1	1.2 Stereoisomerism - Types.
4	1	causes of optical activity of Lactic Acid & Tartaric acid.
5	1	Racemisation - Resolution
6	1	Geometrical isomerism – Maleic acid & Fumaric acid.
7	1	1.3 Oxidation-Reduction reactions



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Enzymatic Oxidation and Enzymatic Reduction Reactions.
9	4	4.1 Development of new drugs
10	4	Drug and Disease-Structure and activity.
11	4	Additives and their role-Human Gene therapy- Animal and Synthetic Biotechnology.
12	4	4.2 Mode of action and uses of sulpha drugs - Prontosil.
13	4	sulphadiazine, and sulphafurazole.
14	4	Definition and one example of analgesics, antipyretics.
15	4	tranquillizers, sedatives, local and general anaesthetics.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	ACHP101 : ALLIED CHEMISTRY PRACTICAL - I	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Systematic analysis of an organic compound containing one functional group and characterization by confirmatory tests
2	1	Demonstration class for systematic analysis of an organic compound containing one functional group and characterization by confirmatory tests
3	1	Demonstration class for systematic analysis of an organic compound containing one functional group and characterization by confirmatory tests
4	1	Qualitative analysis of Organic compound-1
5	1	Qualitative analysis of Organic compound-2
6	1	Qualitative analysis of Organic compound-3
7	1	Qualitative analysis of Organic compound-4

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Qualitative analysis of Organic compound-5
9	1	Qualitative analysis of Organic compound-6
10	1	Qualitative analysis of Organic compound-7
11	1	Qualitative analysis of Organic compound-8
12	1	Qualitative analysis of Organic compound-9
13	1	Qualitative analysis of Organic compound-10
14	1	Revision
15	1	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	ACH101B : ALLIED CHEMISTRY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Co-Ordination Chemistry: introduction - ,
2	2	Co-Ordination Chemistry: Definition of terms used
3	2	spectrochemical series
4	2	Clasification of ligands
5	2	Werner's theory
6	2	Biochemistry of iron--Heme proteins-Nature of Heme-Dioxygen Binding
7	2	Iron storage and Transport

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Structure and function of hemoglobin
9	2	Structure and function of myoglobin
10	2	Revision
11	2	BioChemistry of metals silent features
12	2	Enzyme catalytic activity of Zn-CarboxypeptidaseA,
13	2	Structural feature and biological functions of Mg-chlorophyll
14	2	Structure and biological functions of Co-Vitamin-B12
15	2	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumarani Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumarani Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	KIiruthava Kapiyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Illamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukamdam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CELINE HILDA MARY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>19BC305 : ENZYMOLOGY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Enzymes-Introduction, activation energy.
2	2	Michealis menten equation and its significances.determination of Km and Vmax
3	2	Line weaver Burk plot & Eadie-Hofstee plot
4	2	Enzyme inhibition – Competitive, Non-competitive and Uncompetitive inhibition (no derivation), reversible & irreversible inhibition, mixed - partial inhibition (definition) – suicidal inhibition
5	3	Allosterism, nature of allosteric enzymes
6	3	sigmoidal curve, mode of action (sequential & symmetry model),
7	3	Allosteric inhibition and its regulation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Aspartate transcarbomylase and PFK.
9	3	Mechanism of action of chymotrypsin
10	4	Types of catalyst
11	4	Coenzymes structure and functions_NAD,FAD
12	4	Coenzymes_ TPP, PLP
13	4	Cofactors_ functions, proximity effects orientation effect
14	2	Revision_ MM EQUATIONS, Mechanisms of action of enzymes
15	3	Revisions_ Allosteric enzymes, types of catalyst

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Yettuth thogai
2	1	Purananooru 184,204 Agananooru 219,351
3	1	Kurun thogai 20,210 Natrinai 21,86
4	1	Ayingru nooru 1-5 Kalith thogai 5
5	2	Pari padal 71-1
6	4	Pathinen keezh kanakku noolgal
7	3	Virunthobal 1-10 Kallamai 1-5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Kallamai 6-10 Kuripparithal 1-10
9	4	Pathu pattu
10	2	Sirubanatru padai
11	2	Mullai pattu
12	2	Madhuri kanji
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SANGA ILLKKIYAM - ETTUTHOGAI NOOLGALIL..., PURANANOORU 184, 204 AGANANOORU 219, 351
2	1	KURUNTHOGAI 20, 210 NATTRENAI 21,86
3	1	IYNGURUNOORU ANNAI VAZHI PATHU 1-5 PADALGAL KALITHOGAIYIL KURUNGHICALI 5 PADALGAL
4	4	ILLKKIYA VARALARU- ETTUTHOGAI NOOLGAL PATHINENKZHKKANAKIL NEETHI NOOLGAL
5	3	THIRUKKURALIL 3 ATHIGARANGAL ARATHUPPALIL VIRUNTHOMBAL PORUTPPALIL KALLAMAI INNBATHUPPALIL KURIPPARETHAL
6	1	ETTUTHOGAYIL PAREPADAL VAIYAI PADAL-10, 71- 131VAREGAL
7	4	ILLKKIYA VARALARU- PATHINENKZHKKANAKIL NEETHI NOOLGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPATTU NOOLGALIL..., SIRUPANNATTUPADAI 111-145 ,235-261 VAREGAL
9	2	MULLAIPPATTU - 26-79 VAREGAL NAALLIYAKKODAN SIRAPPU
10	5	MOZHITHIRAN PATHIREGAIGALIL SEITHI VARAITHAL SURUKKI VARAITHAL
11	2	MADURAI KAANGHI 238- 270 VAREGAL THAMIZH NILATHIL AMAINTHA 5 NILAPPAGUTHIGALIN PANBUM VALAMUM
12	2	PATTINAPPALAIYIL 1-59 VAREGAL KAAVIREPOOMPATTINATHIN SIRAPPUGAL
13	5	MOZHITHIRANIL..., NEERKKAANAL
14	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL
15	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Bio Chemistry	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust
14	5	wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	AZBC401T : ADVANCED ZOOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INVERTEBRATES - Structural and functional details of phylum-Protozoa-Plasmodium vivax, Helminthes
2	1	Taeniasolium, Annelida-Earthworm
3	1	Digestive system
4	2	CHORDATES- Prochordata – amphioxus.
5	2	Morphological details of chordates- Pisces-shark, Amphibia
6	2	Frog, Reptiles- Calotes, Aves- pigeon, Mammalia- Rat
7	3	CYTOLOGICAL TECHNIQUES AND HUMAN GENETICS – Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles. Mendel's experiments.Mutation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Linkage and Crossing over, Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics
9	3	Hardy Weinberg principle and its application in human population. Genetic engineering and its applications in human being. Pedigree chart and its uses.
10	4	DEVELOPMENTAL BIOLOGY- Gametogenesis in mammals – Spermatogenesis, Oogenesis, Fertilization. Types of Eggs, Pattern of cleavage.
11	4	Blastulation and Gastrulation in chick. Human Reproduction- Puberty, Menstrual cycle, Menopause, Pregnancy and related problems- Parturition and lactation
12	4	Human cloning- Ethics.
13	5	ECOLOGY AND EVOLUTION- Principles and Applications of Environmental biology. ecological succession, ecological niche, Animal relationships, Interspecific-
14	5	Antagonism, symbiosis, Parasitism, Mutualism, commensalisms.
15	5	Lamarckism, Darwinism, mimicry, Fossil and Fossilization.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>19BC408 : ANALYTICAL BIOCHEMISTRY - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SHIFT-II: Principle, procedure and types of Paper chromatography, Thin layer chromatography
2	1	Gas liquid chromatography, Molecular sieve chromatography, High performance liquid chromatography
3	1	Affinity chromatography, Ion exchange chromatography
4	2	Column types.-Phase, reverse phase, ion exchange and size exclusion types and its applications.
5	2	Detectors in chromatography – UV, PDA,
6	2	Electron capture, Thermal conductivity and Fluorescence detector.
7	3	Electrophoresis-Factors affecting electrophoretic mobility, Principle, procedure and applications of Paper, Cellulose acetate.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Gel electrophoresis: Agarose, Polyacrylamide,
9	3	SDS-PAGE, Isoelectro focusing
10	4	Radio isotope Techniques: Atomic structure, isotopes, type of radioactive decay, half-life, and units of radioactivity.
11	4	Detection and measurement of radioactivity, Methods based upon ionization - GM counter and Scintillation counter.
12	4	Autoradiography, applications of radioisotopes in biology
13	5	Basic principle and components of Light microscopy, Phase field inverted microscopy, fluorescence microscopy.
14	5	Blotting techniques-Southern, Northern
15	5	Western and Eastern.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>21BCP402 : MAIN PRACTICAL - II</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Estimation of oxalate
2	2	Estimation of ferrous ion
3	2	Estimation of copper
4	2	Estimation of potassium dichromate
5	2	Estimation of calcium
6	2	Colorimetric estimation of protein by biuret method and Lowry's Method
7	2	Colorimetric estimation of phosphorus

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Colorimetric estimation of DNA
9	2	Colorimetric estimation of RNA
10	2	Preparations of buffers, pka value, pH meter
11	2	Paper chromatography, TLC
12	2	SDS-PAGE
13	2	Food content of carbohydrates, proteins, ash content, water content, moisture content, fibre content
14	2	Model practical exam 1
15	2	Model practical exam 1

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AGNES MARY I Dr	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	LT404A : TAMIL - IV	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 Ettuthogai
2	1	1.1 Puranaanuru 1.2 Aganaanuru
3	1	1.3 Kurunthogai 1.4 Nartinai
4	1	1.5 Ingurunooru 1.6 Kalithogai
5	1	1.7 Paripaadal
6	4	4.3 Keezhkanaku noolgalil neethi noolgal
7	3	3.1 Arathupaal _ virunthombal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Porutpaal _ Kallaamai 3.3 Inbaththupaal _ Kuriparithal
9	4	4.2 Paththupaattu
10	2	2.1 Sirupaanaartrupadai
11	2	2.2 Mullaipaattu
12	2	2.3 Madhuraikaanchi
13	2	2.4 Pattinapaalai
14	2	2.4 Pattinapaalai
15	5	Mozhithiran 5.1 Pathirikaigalil seithi varaithal 5.2 Surukki varaithal 5.3 Nearkaanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock interview Actual interview Drama: Julius Caesar -funeral oration -william Shakespeare
2	1	Novel ( the count of Monte Cristo-Alexander Dumas chapter 1-10
3	2	Words often confused Seminar skills Drama Macbeth -he kills sleep -william Shakespeare
4	2	Idioms & phrase The count of Monte Cristo( chapter 11- 20)
5	3	Homonyms Tele conference Handling customers Clients Reciving visitors
6	3	Drama Henry 4 part 1 play out a play - William Shakespeare Novel: the count of Monte Cristo - Alexander Dumas (chapter 21-30)
7	4	ICIA Homophones Booking hotel accommodation Making small talk and telling story

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Drama As you like it Patterns of love - William Shakespeare Novel : the count of Monte Cristo - Alexander Dumas
9	4	Negotiable skills
10	5	Group discussion
11	5	Making appointments
12	5	Drama : Hamlet -churchyard - William Shakespeare
14	5	Writing Review of Books x
15	5	Revision
13	5	Novel : The count of Monte Cristo

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SHEELA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>AMBC302 : ALLIED MICROBIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of Microbiology, History and scope of Microbiology
2	1	Shape and Size of bacterial cells - Structure of bacterial cell
3	1	Structure and functions of cell organelles (Cell wall, structures found outside the cell wall and within the cell wall) - Structure of Endospore
4	2	Microscopy - Simple, Compound, Dark field, Phase contrast, Fluorescent,
5	2	Electron Microscopes - Staining – Classification Microorganisms - Haeckel's, Whitaker's - Prokaryotes and eukaryotes
6	2	Taxonomical ranks - Binomial Nomenclature - Characteristics used in Taxonomy
7	3	Sterilization - Physical agents - Moist heat, Dry heat, Radiation, Filtration.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Chemical agents - Phenols and phenolic compounds, Alcohols, Gaseous agents.
9	3	Antibiotics – Classification, Mode of action - Antifungal and antiviral agents – examples
10	4	Motility of bacteria - Nutrient requirements of microorganisms - Growth factors -
11	4	Nutritional types - Culture media - Pure culture - Microbial growth - Growth curve .
12	4	Measurement of microbial growth - Continuous culture - Environmental factors affecting growth - Bacterial reproduction
13	5	Brief description of important groups of bacteria
14	5	Actinomycetes, Photosynthetic bacteria, Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria
15	5	General characteristics of Algae, Fungi, Protozoa and viruses - Human diseases and the pathogen involved – Role of microorganisms in the environment

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	AZBC401T : ADVANCED ZOOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Structural and functional details of phylum-Protozoa- Plasmodium vivax,
2	1	Helminthes-Taeniasolium, Annelida-Earthworm- Digestive system,
3	2	Prochordata – amphioxus- Morphological details of chordates- Pisces-shark,
4	2	Amphibia -Frog, Reptiles- Calotes, Aves- pigeon, Mammalia- Rat.
5	3	Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles. Mendel's experiments. Mutation, Linkage and Crossing over,
6	3	Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics- Hardy Weinberg principle and its application in human population.
7	3	Genetic engineering and its applications in human being. Pedigree chart and its uses.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Gametogenesis in mammals – Spermatogenesis, Oogenesis, Fertilization.
9	4	Types of Eggs, Pattern of cleavage, Blastulation and Gastrulation in chick.
10	4	Human Reproduction- Puberty, Menstrual cycle, Menopause,
11	4	Pregnancy and related problems-Parturition and lactation- Human cloning- Ethics.
12	5	Principles and Applications of Environmental biology. ecological succession, ecological niche,
13	5	Animal relationships, Interspecific- Antagonism, symbiosis, Parasitism, Mutualism, commensalisms.
14	5	Lamarckism, Darwinism,
15	5	mimicry, Fossil and Fossilization.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	AZBP401 : ADVANCED ZOOLOGY PRACTICAL	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Dissection of digestive system
2	1	body setae in earthworm
3	1	Prawn- Appendages
4	1	Estimation of Unit metabolism of fish
5	1	Squash preparation of onion root tip for mitosis.
6	1	Human pedigree construction for a family data.
7	1	Mouth parts- Honey bee



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Mouth parts- Mosquito
9	1	T.S. of Chick embryo- 24hrs, 48hrs,
10	1	T.S. of Chick embryo-72hrs and 96hrs,
11	1	Taeniasolium, Placoid scale,
12	1	T.S. of Pituitary gland,
13	1	Adrenal gland,
14	1	Thyroid gland,
15	1	Testis and Ovary.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	LISTENING-NARRATION WELCOMING THE GATHERING INTRODUCING THE CHIEF GUEST THANKING THE GATHERING AND ORGANISERS
2	1	ONE ACT PLAY-REFUND PUBLICITY LITERATURE
4	2	GIVING ONE'S OPINION ON CURRENT NATIONAL/SOCIAL ISSUES SPOTTING ERRORS
3	2	LISTENING QUIT INDIA- GANDHI TRYST WITH DESTINY- NEHRU
5	2	ONE ACT PLAY- THE BEAR-ANTOV CHEKHOV
6	3	PROSE-LISTENING GETTYSBURG ADDRESS- ABRAHAM LINCOLN I HAVE A DREAM-MARTIN LUTHER KING JR PREPARING NEWS ITEM OF LOCAL EVENTS
7	3	ONE ACT PLAY- THE HOUR OF TRUTH-PERCIVAL WILDE EMAIL WRITING SAMPLE NEWS ITEM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	CIA-I
9	4	LISTENING INAUGURAL ADDRESS- JOHN F KENNEDY - PROSE PREPARED TO DIE- NELSON MANDELA- PROSE
10	4	SPEAKING PRESENTATION SKILLS WRITING RESUME WRITING
11	4	READING AUTOBIOGRAPHY SORROWS OF CHILDHOOD-CHARLIE CHAPLIN
12	5	LISTENING SOME USEFUL EXPRESSIONS SPEAKING SPEECH WRITING WRITING MINUTES WRITING
13	5	READING BIOGRAPHY 1. MARIE CURIE- COLIN MITCHELL 2. SAROJINI NAIDU- PADMINI SENGUPTA
14	5	CIA-II
15	5	REVISION OF ALL THE TOPICS DISCUSSED

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>AZBC401T : ADVANCED ZOOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INVERTEBRATES - Structural and functional details of phylum.
2	1	Protozoa-Plasmodium vivax, Helminthes-Taeniasolium.
3	1	Annelida-Earthworm- Digestive system.
4	2	CHORDATES- Prochordata – amphioxus-
5	2	Morphological details of chordates- Pisces-shark, Amphibia - Frog.
6	2	Reptiles- Calotes, Aves- pigeon, Mammalia- Rat.
7	3	CYTOLOGICAL TECHNIQUES AND HUMAN GENETICS – Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Mendel's experiments. Mutation, Linkage and Crossing over, Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics.
9	3	Hardy Weinberg principle and its application in human population. Genetic engineering and its applications in human being. Pedigree chart and its uses.
10	4	DEVELOPMENTAL BIOLOGY- Gametogenesis in mammals – Spermatogenesis, Oogenesis, Fertilization.
11	4	Types of Eggs, Pattern of cleavage, Blastulation and Gastrulation in chick. Human Reproduction.
12	4	Puberty, Menstrual cycle, Menopause, Pregnancy and related problems-Parturition and lactation- Human cloning- Ethics.
13	5	ECOLOGY AND EVOLUTION- Principles and Applications of Environmental biology. ecological succession.
14	5	Ecological niche, Animal relationships, Interspecific- Antagonism, symbiosis, Parasitism, Mutualism, commensalisms
15	5	Lamarckism, Darwinism, mimicry, Fossil and Fossilization.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LEEMA ROSE MARY D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19EBC63B : HUMAN PHYSIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Respiration, types of Respiration, Respiratory system of man,
2	3	Transport of O <sub>2</sub> , Oxygen Dissociation curve, Role of Hemoglobin in of O <sub>2</sub> transport
3	3	Transport of CO <sub>2</sub> , Role of Hemoglobin in of CO <sub>2</sub> transport, Bohr Effect, Chloride shift
4	3	Excretory system of man, structure of nephron,
5	3	Mechanism of urine formation – Ultra filtration, Re absorption and Secretion
6	3	revision
7	3	revision



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Introduction, types of muscle, Ultra structure of skeletal muscle - light band, dark band, Sarcomere,
9	5	Muscle proteins-thick filament-myosin, thin filament - actin, tropomyosin and troponin.
10	5	.Muscle contraction – types of muscle contraction and theories of muscle contraction,
11	5	Molecular basis of skeletal muscle contraction.
12	5	Bone structure and formation.
13	5	Ligaments and tendons
14	3	revision
15	5	revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	5
Subject	19BC510 : IMMUNOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Immune system: Introduction and characteristics, classification of immunity-innate and acquired immunity.
2	1	Primary and secondary lymphoid organs. Structure and functions of immune cells [macrophage, T cell, B cell, NKC, dendritic cell and APC
3	1	Immune response - T and B cell mediated immune response
4	1	B & T lymphocytes cooperation. Phagocytosis and pinocytosis.
5	3	Complement components- complement cascade-classical, alternate and lectin pathway, complement deficiencies.
6	3	Major Histocompatibility Complex (MHC) - Structure and function of MHC-I, II & III molecules. Role of MHC antigen in immune response.
7	3	Transplantation – Graft and its types, mechanism of graft rejection in skin, graft versus host reaction and Immunosuppressive drugs.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Allergy and hypersensitivity- Introduction, types
9	4	Allergy and hypersensitivity- type I, and their clinical manifestations,
10	4	Allergy and hypersensitivity- type - II, and their clinical manifestations,
11	4	Allergy and hypersensitivity- type - III and their clinical manifestations,
12	4	Allergy and hypersensitivity- type - IV and their clinical manifestations,
13	4	Autoimmune diseases-myasthenia gravis, rheumatoid arthritis, thyrotoxicosis and SLE.
14	4	Autoimmune diseases-myasthenia gravis, rheumatoid arthritis, thyrotoxicosis and SLE.
15	4	Immuno tolerance- Mechanism

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	5
Subject	19BCP603* : Main Practical - III	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of creatinine by Jaffe's method
2	2	Estimation of urea by DiacetylMonoxime method.
3	3	Estimation of triglycerides in blood
4	4	Bilirubin in blood
5	5	Bilirubin in blood
6	6	Effects of temperature on amylase .
7	7	Effects of pH on amylase

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Effects of substrate concentration for amylase
9	9	Effects of substrate concentration for urease.
10	10	Thin layer chromatography - Amino Acids separation
11	11	Thin layer chromatography - Carbohydrates separation
12	12	Isolation of lipids from egg yolk .
13	13	Column chromatography – leaf pigments.
14	14	Estimation of gluten content in wheat flour. Gelatinization of starch.
15	15	Determination of pH density of milk & milk products. Lipid content in food

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	6
Subject	19EBC63B : HUMAN PHYSIOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Composition of blood – types of blood cells, morphology and its functions,
2	1	Blood groups -ABO group and Rh type.
3	1	Composition of lymph,
4	1	circulatory system: Heart - basic anatomy, cardiac cycle, cardiac output and pace maker.
5	1	Heart - cardiac cycle
6	1	cardiac output
7	1	pace maker.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Definition, digestive system - Anatomy of digestive system
9	2	Anatomy of digestive system
10	2	chemical process of digestion.
11	2	Salivary digestion
12	2	gastric digestion - Mechanism of Hcl secretion in stomach, pancreatic digestion, intestinal
14	2	, Digestion and absorption of carbohydrates, proteins, and lipids.
15	2	Digestion and absorption of proteins, and lipids.
13	2	pancreatic digestion, intestinal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	6
Subject	19BCP603 : MAIN PRACTICAL - III	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Estimation of triglycerides in blood
2	2	Bilirubin in blood
3	2	Uric acid estimation
4	4	Thin layer chromatography - Amino Acids
5	4	Thin layer chromatography - Carbohydrates
6	4	Isolation of lipids from egg yolk and separation by TLC.
7	4	Column chromatography – leaf pigments



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Estimation of gluten content in wheat flour.
9	5	Gelatinization of starch.
10	5	Determination of pH density of milk & milk products.
11	5	Lipid content in food
12	5	Nutritive value of foods.
13	5	Oxidative rancidity of potato chips
14	5	Fibre in food Iron in food
15	5	Food additives/adulterants

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>5</b>
Subject	<b>19EBC52A : PLANT BIOCHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Discovery and definition of plant cell, cell wall, plasmodesmata, meristematic cells and secretory systems.
2	1	Mechanism of absorption- Ion exchange, passive absorption & Active absorption.
3	1	The carrier concept and Donnan membrane equilibrium. Cytochrome pump theory
4	2	Structure, biosynthesis, mode of action and physiological effects of auxins, Gibberellins
5	2	Structure, biosynthesis, mode of action and physiological effects of Cytokinins, Biochemistry of seed dormancy, seed germination, fruit ripening and senescence.
6	3	Introduction, definition of Photosynthesis, Structure & synthesis of chlorophyll, phycobilins and carotenoids.
7	3	Photosynthesis: photosystem I & II, Light absorption, Hill reaction, Red drop & Emerson's enhancement effect.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cyclic and non-C3, C4 & CAM. Photosynthesis-factors and regulation. Glyoxalate cycle.
9	4	Introduction to Secondary metabolites in plants – classification & function of alkaloids
10	4	Secondary metabolites in plants – classification & function of Terpenes
11	4	Secondary metabolites in plants – classification & function of tannins, lignin and pectin.
12	4	Stress metabolism in plants - Environmental stresses, salinity, water stress, heat, chilling and their impact on plant growth, criteria of stress tolerance.
13	5	Nitrogen fixing organisms: Structure and mechanism of action of nitrogenase: Rhizobium symbiosis.
14	5	Leghaemoglobin, strategies for protection of nitrogenase against the inhibitory effect of oxygen, nif genes of Klebsiella pneumoniae and their regulation
15	5	Ammonia assimilation by glutamine synthetase, glutamine oxoglutarate amino transferase (GS-GOGAT). Nitrite and nitrate reductase.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19EBC64B : MEDICAL LABORATORY TECHNOLOGY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit of measurement, reagent preparation and laboratory calculation. Code of ethics of laboratory technician, precautions taken to prevent hazards, handling and storage of chemicals.
2	1	Types of biological specimen collection and procedure: blood, urine, sputum, throat swab, stool and CSF.
3	1	Smear preparation and its types, calibration, measurements, quality control & GLP.
4	1	Basic lab instruments - Centrifuge, incubator, colorimeter, oven and pH meter.
5	3	Histopathology: Tissue cutting, fixation (Cryo preservation and formalin), embedding,
6	3	Types of micro tome, tissue slicing by micro tome,
7	3	slide mounting and staining techniques: types

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To identify carbohydrates, proteins & lipids by using Special staining.
9	5	Culturing of organisms from various specimens, culture media
10	5	antibiotic sensitivity test (pus, urine)
11	5	antibiotic sensitivity test (blood, sputum, )
12	5	antibiotic sensitivity test (throat swab)
13	5	Differential staining (Gram stain) Introduction, principle, reagents & materials required, procedure, result
14	5	Ziehl-Neilson staining method (TB, Mycobacterium leprae)
15	5	Safety procedure in microbiological technique

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEETHA LAKSHMI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19BC611 : MEDICAL BIOCHEMISTRY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Diabetes mellitus- definition, WHO criteria, classification of diabetes mellitus-signs, symptoms and complications.
2	1	regulation of blood glucose level, Impaired glucose tolerance, Impaired fasting glycemia, Gestational diabetes mellitus,.
3	1	Alimentary glucosuria, Renal glucosuria, Hyperosmolar nonketotic coma, Lactic acidosis, Glycated hemoglobin. Insulin resistance.
4	2	Cardiovascular diseases: Atherosclerosis, Coronary artery disease, Relation of cholesterol with myocardial infarction, Risk factors of atherosclerosis, Prevention of atherosclerosis.
5	2	Hypolipoproteinemias, hyperlipoproteinemias. Obesity- factors leads to Obesity and its treatment.
6	2	Cancer: Etiology, Chemical carcinogens, Antimutagens, Oncogenic viruses, Oncogenes, Proto oncogene, Characteristics of cancer cells.
7	3	Inborn errors of metabolism- phenylketonuria, alkaptonuria, albinism, cystinuria and fanconis syndrome.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Exogenous and endogenous transport of lipids- chylomicron transport, VLDL transport-reverse cholesterol transport.
9	4	Liver function test-Heme catabolism.
10	4	Jaundice- classification- biochemical findings.
11	4	liver function test based on bile pigments- Vanden bergh test, Detoxification-Hippuric acid excretion and BSP dye test, metabolism-galactose tolerance test, Prothrombin time.
12	4	Gastric function test-gastric contents, resting stage gastric analysis-stimulation test (histamine, pentagastrin) - FTM-AZURE-A test. Hypo and hyperacidity.
13	5	Renal function test-renal concentration test-PSP dye test-urea, creatinine and inulin clearance test.
14	5	Plasma enzymes-functional and non-functional enzymes.
15	5	isoenzymes, enzyme patterns in acute pancreatitis, liver diseases and myocardial infarction.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SEETHA LAKSHMI	Academic Year	2022-2023
Department	Bio Chemistry	Semester	6
Subject	19SBC62A : SKILL PAPER - II HORTICUTLURE	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition and scope of horticulture.
2	1	Importance of horticulture in terms of production, employment generation,
3	1	environmental protection, economy, and human resource development
4	1	Identification of important horticultural crops in India.
5	3	Manures- different methods of application of manures to horticultural crops.
6	3	Principles of organic farming-
7	3	importance of organic farming.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	procedure and technology of organic farming.
9	5	classification of Nursery
10	5	Digging of pits for fruit plants
11	5	Preparation of nursery beds
12	5	nursery beds for sowing of vegetable seeds
13	5	fertilizer mixtures
14	5	Preparation of fertilizer mixtures
15	5	field application of fertilizer mixtures

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>5</b>
Subject	<b>19BC509 : MOLECULAR BIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	C value paradox, Cot value, organization of chromosomes
2	1	nucleosomes and euchromatin, heterochromatin & centromeres
3	1	telomeres and central dogma of molecular biology
4	2	DNA-Highly repetitive, moderately repetitive
5	2	unique DNA sequences. Satellite DNA, Transposons
6	3	post transcriptional modification of mRNA, tRNA
7	3	post transcriptional modification of rRNA.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Genetic code-features
9	4	deciphering of genetic code
10	4	Wobble hypothesis
11	4	Inhibitors of protein synthesis,
12	4	post translational modification
13	5	DNA repair-photo reactivation,
14	5	Excision repair, recombination,
15	5	SOS and Mismatch repair

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19BC612 : BIOTECHNOLOGY &amp; GENETIC ENGINEERING</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Totipotency, tissue culture: media, composition, nutrients, growth regulators,
2	2	regeneration of plants-organogenesis and somatic embryogenesis,
3	2	callus and cell suspension culture, micropropagation, production of haploid plants,
4	2	protoplast isolation, fusion and regeneration.
5	3	Animal cell culture: requirements, sterilization& applications. Culture media: natural and artificial,
6	3	properties & use of serum and serum-free media, cell adhesion molecules.
7	3	Primary cell culture: mechanical disaggregation, enzymatic disaggregation and primary explants technique.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cell lines: finite and continuous.Subculture: mono layer and suspension cultures.
9	4	Transgenic animals: techniques and applications - transgenic mice
10	4	transgenic sheep.
11	4	Stem cells: isolation, identification and uses.
12	4	Transgenic plants and its applications.
13	5	PCR
14	5	RT PCR,
15	5	IPR & Patents.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>6</b>
Subject	<b>19SBC62A : SKILL PAPER - II HORTICUTLURE</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Preparation of land: layout plan
2	2	methods for gardening. Vegetable gardens,
3	2	nutrition and kitchen garden,
4	2	truck garden, Vegetable forcing,
5	2	market gardens and roof gardens.
6	3	Principles of organic farming-importance,
7	3	organic farming - procedure

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	technology of organic farming.
9	4	Definition, classification and importance of Nursery.
10	4	Nutrient deficiency management
11	4	use of chemical fertilizers.
12	4	use of bio fertilizers.
13	4	. Growth regulators - introduction
14	4	Growth regulators and its types
15	4	Growth regulators and its effects in Nursery management.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Pallaverkala Ilakiyangal
2	1	Valalar - Thirubarulkodai Thiruganasambanthar - Muthal Thirumurai - Thirualavai
3	1	Periyazvar - Thirupalandu Namazvar - Patham Thirumaurai
4	1	Vanakalangiypulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Ilakiyavaralaru - Urainadai Thortam Valarchi
6	3	Pavanar Padaipugal - Pavanar Nokil Perumakkal
7	3	Pavanar Padaipugal - Pavanar Nokil Perumakkal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pavanar Padaipugal - Pavanar Nokil Perumakkal
9	4	Ilakiyavaralaru - Nayakar Kalam
10	2	Palapatadai Chokanathapulaver - Alager Killaividu Thoothu
11	2	Pagazhi Koother - Thiruchendur Murugan Pillai Thamil Kumaragurubarar - Madurai Meenatchiyammai Irataimanimalai
12	4	Ilakiyavaralaru - SidharIlakiyam
13	2	Arunagirinather - Thirupugaz Patinathar - Thiruthillai
14	2	Patinathar - Thiruthillai Sivavakiyar - padal 9, 10,11
15	5	Ilakanam -Yapu , Ani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JOHNBOSCO A Dr	Academic Year	2022-2023
Department	Chemistry	Semester	1
Subject	LT101B : TAMIL - I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANTONY SANDOSH T	Academic Year	2022-2023
Department	Chemistry	Semester	1
Subject	CH102A : KINETIC THEORY OF GAS AND CHEMICAL KINETICS	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Dimensions of units and its conversion-Temperature, Mass
2	1	units and its conversion-Length, Charges and Energy
3	1	The perfect gas equation of state – Boyle's law, Charle's law, and Avogadro's principle
4	1	Real gas equation –critical temperature – compression factor -
5	1	Virial equations of state –Vanderwaals equation of state
6	1	Boyle temperature -Joule –Thomson effect- Linde refrigerator
7	1	Numerical conversion problems related to Temperature, Mass, Length, Charges, and Energy

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Kinetic model of gases- laws from the kinetic gas equation – Kinds of speed – mean, rms, most probable velocities
9	2	Maxwell's distribution of molecular speeds –Variation with temperature and molar mass. Combined gas equation- Standard temperature and pressure. A mixture of gases: partial pressures- Dalton's law.
10	5	Solutions- types of solutions- concentration units of solutions- ideal and non-ideal solutions
11	5	Colloids- various types of classification.
12	5	emulsions-applications of colloids.
13	5	Mesophases and disperse systems – liquid crystals- classification- surface, structure, and stability
14	5	electrical double layer. Numerical problems related to concentration terms and activity coefficients
15	5	REVISIONS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANTONY SANDOSH T	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	20CH204 : ANALYTICAL CHEMISTRY - I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definitions of Molality – Normality – Calculations
2	2	Mole fraction and their calculations.
3	2	Definition and examples for primary and secondary standards – Calculation of equivalent.
4	2	Theories of acid-base – Redox, complexometric and Iodometric titrations.
5	2	Problems on Volumetric analysis-strengths of solutions.
6	2	Theories of indicators – acid, base, redox, metal ion, and adsorption indicators and choice of indicators
7	3	Equivalent weights of Compounds – using hydrogen displacement method, –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	methods of determination of equivalent weights
9	3	oxide method, chloride method, metal displacement method .
10	3	Equivalent weight calculations.
11	3	Problems based on the law of normalities for acid, Alkali titrations.
12	3	The concept of double and back titrations.
13	4	Chemical Instrumentation: Elementary Electronics, Simple integrated circuit, Semiconductor, Power supply.
14	4	Transducers, Rectifiers, Signal to noise ratio, Electronic components (Resistors, capacitors.
15	4	Transformer, Operational amplifier, Detectors (Oscilloscope and recorders), , inductors, and transistors), measuring instruments for pressure, temperature, current, and voltage

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANAND G	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	20CH204 : ANALYTICAL CHEMISTRY - I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Chemical formulae and percentage composition
2	3	Determination of empirical Formulae – and molecular formulae.
3	3	Law of conservation of mass – Law of constant composition
4	3	Law of multiple proportions – Law of reciprocal proportions
5	3	Gay Lussac's law of Gaseous volumes.
6	5	Chromatographic technique
7	5	The principle of chromatography



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Definition of the terms
9	5	Rf value
10	5	paper chromatography
11	5	principle and applications
12	5	thin layer chromatography
13	5	thin layer chromatography
14	5	Applications of thin layer chromatography
15	5	Problems on thin layer chromatography

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1 IRUPATHAM NOOTRANDU KAVINJARGAL
2	1	1.1 BHARATHIYAR - KANINILAM 1.2 BHARATHI THASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKALKAVINJAR - PIRAATHANAI 1,4 PAAVALARERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5 KANNADHASAN - THAVARU MANNIPU 1.6 SURATHAA - MELAADAI
5	5	5.1 MUDHAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2 VALLOTRU MIGUM IDAM 5.3 VALLOTRU MIGA IDAM
7	3	3.2 PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1 ARIVUMATHI - POOTHA NERUPPU 2,2 MEERA - PILLAI THAMIZH
9	2	2.3 ERODU THAMIZHANBAN - VETRI MUGAM 2.4 VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5 SIRPI - ABDUL KALAAMIN VEENAI
11	2	2.6 iI HAIKOO KAVITHAIGAL
12	2	2.6 II SENTRIYU KAVITHAIGAL
13	3	3.3 SIRUKATHAIYIN THOTRAMUM VALARCHIYUM
14	4	4.1 KADAVULUM KANTHASAMI PILLAIYUM 4.2 ORU NAAL KAZHINTHATHU
15	4	4.3 KAALANUM KIZHAVIUM 4.4 AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMA PRIYA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>AMT202T : ALLIED MATHEMATICS - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Vector differentiation Scalar function
2	3	Vector function Directional derivatives
3	3	Unit vector normal Angle between the surfaces
4	3	Tangent to the vector normal Integration
5	3	Divergence Curl
6	3	Solenoidal vector Irrotational vector
7	3	Problems based on divergence and curl

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Finite difference Operators
9	5	Missing terms Related problems
10	5	Newton's forward interpolation formula
11	5	Newton's backward interpolation formula
12	5	Lagrange's formula
13	5	Lagrange's formula
14	5	Simple problems Revision
15	5	Simple problems Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>19CHP101 : PRACTICAL - I : VOLUMETRIC ANALYSIS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Demo class-1 Volumetric Analysis
2	1	Demo class-2 Volumetric Analysis
3	1	Estimation of Iron (II) Sulphate by $\text{KMnO}_4$ using a standard Mohr's salt solution
4	1	Estimation of $\text{Na}_2\text{CO}_3$ by $\text{HCl}$ using a standard $\text{Na}_2\text{CO}_3$ solution
5	1	Estimation of Iron (II) Sulphate by $\text{K}_2\text{Cr}_2\text{O}_7$ using a standard Mohr's salt solution
6	1	Estimation of Copper (II) Sulphate by $\text{K}_2\text{Cr}_2\text{O}_7$ solution
7	1	Estimation of Magnesium (II) by EDTA solution

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Estimation of HCl by NaOH using a standard oxalic acid solution
9	1	Estimation of Oxalic acid by KMnO <sub>4</sub> using a standard oxalic acid solution
10	2	Estimation of total Hardness of water
11	2	Estimation of Bleaching powder
12	1	Estimation of Oxalic acid by KMnO <sub>4</sub> using a standard oxalic acid solution
13	1	Estimation of Iron (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> using a standard Mohr's salt solution
14	1	Estimation of Na <sub>2</sub> CO <sub>3</sub> by HCl using a standard Na <sub>2</sub> CO <sub>3</sub> solution
15	1	Model Exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Systematic Analysis of Inorganic Salt Mixture-I
2	1	Systematic Analysis of Inorganic Salt Mixture-II
3	1	Systematic Analysis of Inorganic Salt Mixture-III
4	1	Systematic Analysis of Inorganic Salt Mixture-IV
5	1	Systematic Analysis of Inorganic Salt Mixture-V
6	1	Systematic Analysis of Inorganic Salt Mixture-VI
7	1	Systematic Analysis of Inorganic Salt Mixture-VII



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Systematic Analysis of Inorganic Salt Mixture-VIII
9	1	Systematic Analysis of Inorganic Salt Mixture-IX
10	1	Systematic Analysis of Inorganic Salt Mixture-X
11	1	Systematic Analysis of Inorganic Salt Mixture-XI
12	1	Systematic Analysis of Inorganic Salt Mixture-XII
13	1	Systematic Analysis of Inorganic Salt Mixture-XIII
14	1	Model practical
15	1	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>CH101B : ORGANIC CHEMISTRY - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	IUPAC nomenclature of organic compounds- naming of simple organic Molecules, practising line formula for organic molecules. The geometry of molecules – Hybridisation - sp <sup>3</sup> , sp <sup>2</sup> , sp with examples.
2	1	Cleavage of Bonds – Homolytic and heterolytic cleavage. Bond energy, Bond length, and Bond angle.
3	1	Electron displacement effects – inductive, inductomeric, electromeric, resonance, hyperconjugation and steric effects. Reactive Intermediates: Carbocations, Carbanions, Carbenes, and free radicals.
4	2	Alkanes – methods of preparation: Wurtz reaction, hydrogenation of alkenes, hydrolysis of Grignard reagents, Kolbe's method. Physical and Chemical properties of alkanes.
5	2	Cycloalkanes – Preparation using Wurtz's reaction – Dieckmann's ring closure and reduction of aromatic hydrocarbons.
6	2	Substitution and ring-opening reactions of cycloalkanes. Bayer's strain theory and theory of strainless rings.
7	3	Alkene Nomenclature - structure and bonding - Isomerism in Alkenes – properties – stability.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of Alkenes – Elimination reactions: Dehydration of Alcohols, Dehydrohalogenation of Alkyl halides. E1 and E2 mechanism. Hofmann and Saytzeff's rules – Problems related to this mechanism
9	3	Addition Reactions of Alkenes: Hydrogenation, Halogenation, Hydrohalogenation - mechanisms – Markovnikov's and Anti Markovnikov's rule. Mechanism of Hydration, Hydroboration, Ozonolysis, Hydroxylation with KMnO <sub>4</sub> . Self-addition. Polymerization of Et...
10	4	Alkynes – Sources of Alkynes - Nomenclature – the acidity of alkynes – addition reactions – hydrogenation, Hydrohalogenation, Hydration with HgSO <sub>4</sub> .
11	4	Preparation of Alkynes by elimination reactions, Ozonolysis of alkynes Alkylation of alkynes through acetylides.
12	4	Dienes - preparation of dienes, classes of dienes - conjugated, isolated and cumulative - stability of dienes - the addition of hydrogen halides & halogens to conjugated dienes - Polymerization of dienes– Diels-Alder reaction - Problems Allenes – Str...
13	5	Conformational isomerism: Conformers, Dihedral angle, torsional strain.
14	5	Conformational analysis of ethane and n-butane.
15	5	Geometrical isomerism: Cis – trans, syn-anti and E-Z notations, Methods of distinguishing geometrical isomers using melting point, dipole moment, dehydration, cyclization and heat of hydrogenation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>21CH203 : INORGANIC CHEMISTRY - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Atomic orbitals - Shapes of s, p, d, f orbital. Hund's rule of maximum multiplicity applications of Hund's rule- Aufbau principle - Pauli's exclusion principle - electronic configuration of elements
2	1	General periodic properties of elements - Periodic table- IUPAC - nomenclature of Inorganic compounds - Atomic radii and ionic radii – size - ionization energies – electron affinity - oxidation states and variable valencies - Inert pair effect
3	1	Applications of electronegativities – Calculation of partial ionic character of a covalent bond, Calculation of enthalpies of formation of compounds - Calculation of bond length - Explanation of diagonal relationship
4	2	Chemistry of Alkaline earth metals: Comparative study of elements – oxides - hydroxides, halides, sulphates and carbonates. Exceptional properties of Be.
5	2	Mg acting as bridging element between II A & II B groups resemblance of Mg with Zn.
6	2	Hydrogen bonding – Intra and Intermolecular hydrogen bonding – properties of hydrogen-bonded Nitrogen, Oxygen, Fluorine and sulphur compounds.
7	3	Chemistry of p – block elements – Boron family- semi metals - group discussion – anomalous behaviour of B - diagonal relationship between B & Si - electron deficiency & electron acceptor behaviour of BX <sub>3</sub>

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Boron hydrides - Bonding in diborane, (VBT & MOT approach) Bonding in tetraborane. Borax, sodium borate, sodium tetraborate, or disodium tetraborate - Boric acid.
9	3	Compounds of Boron with Nitrogen - Borazole and Boron nitrides.
10	4	Ionic Bond: Conditions for the formation of ionic bond – Radius ratio rules and its limitations – formation of NaCl – Hydration energy – Lattice energy and their applications – Born Haber cycle– General properties of ionic compounds.
11	4	Covalent bonding: Polarization and Fajan's rule, Effects of polarization, VBT conditions for the formation of covalent bond – orbital overlap– hybridization- sigma and pi bonds - Characteristics of Covalent Compounds. Hannay smith equation
12	4	Acid-Base concepts – Lewis, Lowry-Bronsted, Luxflood, Usanovich concepts & HSAB approach. Unit
13	5	VSEPR Theory: Molecular shapes predicted by Sidgwick's Powell theory – Effect of lone pairs and Electronegativity – Effects of bonding and lone pairs on bond angles. Geometries of $\text{ClF}_3$ , $\text{IF}_7$ , $\text{XeF}_6$ , $\text{BF}_4^-$ , $\text{BO}_3^{3-}$ , $\text{NH}_4^+$ , $\text{I}_3^-$
14	5	Molecular Orbital Theory: LCAO method, criteria of orbital overlap – types of molecular orbitals - sigma and pi molecular orbitals, combination of atomic orbital to give sigma and pi molecular orbitals and their schematic illustration.
15	5	Qualitative molecular energy level diagram of homo and hetero diatomic molecules – $\text{H}_2$ , $\text{N}_2$ , $\text{O}_2$ , $\text{CO}$ , $\text{NO}$ & $\text{HCl}$ – bond order and stability of molecules.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	explanation of Semi – micro qualitative analysis of Inorganic substances
2	1	Demonstration of Semi – micro qualitative analysis of Inorganic substances
3	1	Semi – micro qualitative analysis of Inorganic substances-I
4	1	Semi – micro qualitative analysis of Inorganic substances-I
5	1	Semi – micro qualitative analysis of Inorganic substances-I
6	1	Semi – micro qualitative analysis of Inorganic substances-I
7	1	Semi – micro qualitative analysis of Inorganic substances-I

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Semi – micro qualitative analysis of Inorganic substances-I
9	1	Semi – micro qualitative analysis of Inorganic substances-I
10	1	Semi – micro qualitative analysis of Inorganic substances-I
11	1	Preparation of TetrammineCopper(II) Sulphate
12	1	Preparation of Tris(thiourea)Copper(I) Chloride
13	1	Preparation of Ferrous Ammonium Sulphate
14	1	Preparation of Chloropentammine Cobalt(III) Chloride
15	1	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumarani Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumarani Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	KIiruthava Kapiyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Illamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukamdam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources.
2	1	Over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	Ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem,
6	2	Grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	Solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	Ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>CHP404 : PHYSICAL METHODS - PRACTICAL IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Melting point-Demo
2	2	Melting point
3	3	Boiling point- Demo
4	4	Boiling point
5	5	Test
6	6	Surface tension -Demo
7	7	Surface tension

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Viscosity - Demo
9	9	Viscosity
10	10	Test
11	11	Purification of Napthalene - Demo
12	12	Purification of Napthalene
13	13	Viva voce discussion
14	14	Model examination
15	15	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>19CHP303 : QUALITATIVE ORGANIC ANALYSIS - PRACTICAL III</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INTRODUCTION- ORGANIC ANALYSIS
2	1	Solubility, Aromatic / aliphatic Demo
3	1	Saturation/Unsaturation Demo
4	1	Special elements Demo
5	1	Organic compound 1
6	1	Organic compound 2
7	1	Organic compound 3

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Organic compound 4
9	1	Organic compound 5
10	1	Organic compound 6
11	1	Organic compound 7
12	1	Organic compound 8
13	1	Organic compound 9
14	1	Organic compound 10
15	1	Model Examination

**\*\* It is an auto generated report \*\***

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANTONY SANDOSH T	Academic Year	2022-2023
Department	Chemistry	Semester	4
Subject	19CH408 : INTRODUCTION TO MOLECULAR STRUCTURE	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Chemical bond-classification of bonds-potential energy curves-VBT-diatomic molecules.
2	2	Polyatomic molecules- explanation.
3	2	promotion and hybridization-resonance.
4	2	Molecular orbitals-linear combinations of atomic orbitals
5	2	Bonding orbitals -anti bonding orbitals-structure of diatomic molecules.
6	2	Hydrogen and helium molecules- period 2 diatomic molecules.
7	3	Molar refractivity – dipole moments and molecular structure.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Magnetic permeability – magnetic susceptibility – diamagnetism – Para magnetism.
9	3	Measurement of magnetic susceptibility.
10	3	Group theory – symmetry elements and operation
11	4	Group multiplication table- postulates of a group.
12	4	Classes and subgroups. Solid-state- Amorphous and crystalline.
13	4	Classification of crystalline solids.
14	4	bonding and electrical conductivity in solids.
15	4	Crystal lattices and unit cells-Bravais lattices.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>ACCH401S : ALLIED - COMPUTER IN CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Programming Language: History of Computer- Introduction to Algorithm
2	1	Flowchart Structure of Programming Languages C Fundamentals: Character set – Identifiers - keywords
3	1	Data types-Constants –Variables– Declarations – Expressions – Statements.
4	2	Control Statements: Data Input/Output functions - Simple C programs
5	2	Operators -Library functions-flow of control
6	2	control structures - switch, break and continue - Go to statement.
7	3	Functions: Defining, accessing functions - functions prototypes



Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	storage classes. Problems: Determination of Electro negativity of an atom from bond energy data using pauling's relation – determination of Lattice Energy of a Crystal using born-Lande equation
9	3	shapes of molecules or ions using VSEPR theory -deriving empirical formula from elemental analysis – calculation of PH and POH – determination of solubility of sparingly soluble salt
10	3	calculation of inter planar spacing for different planes in an orthorhombic crystal.
11	4	Arrays: Defining and processing – Types of Arrays string Functions-strlen()-strcpy()- strcat()
12	4	strcmp()-strlwr()-strupr()-strrev()- Structures.
13	4	Problems: Determination of Half Life and Average Life of a Radio active nucleus
14	4	-Determination of Normality, Molarity and Molality of Solutions
15	4	Calculation of Equivalent weight of acids, bases and salts.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Determination of electro negativity of an atom from Bond Energy data using Paulings relation
2	1	Determination of Lattice energy of a crystal using Born-Lande Equation
3	1	Deriving the Shapes of molecules or ions using VSEPR Theory
4	2	Deriving the Shapes of molecules or ions using VSEPR Theory
5	2	Deriving Empirical Formula from Elemental Analysis
6	2	Determination of PH and POH
7	3	Determination of Solubility of sparingly soluble salts

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determination of Solubility of sparingly soluble salts
9	3	Determination of Normality, Molarity and Molality of the solution
10	4	Determination of Normality, Molarity and Molality of the solution
11	4	Determination of Half life and average life of a radioactive nucleus
12	4	Determination of Half life and average life of a radioactive nucleus
13	5	Determination of Inter-Planar Distance for Planes
14	5	Determining the Equivalent Weight of Acids, Base and Salts
15	5	Determining the Equivalent Weight of Acids, Base and Salts

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Determination of Electro negativity of an atom from bond energy data using pauling's relation
2	1	Determination of Electro negativity of an atom from bond energy data using pauling's relation
3	1	Determination of Lattice Energy of a Crystal using born-Lande equation
4	1	Determination of Lattice Energy of a Crystal using born-Lande equation
5	1	Determination of pH Determination of pOH
6	1	Determination of pH Determination of pOH
8	1	Determination of pH Determination of pOH

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	1	Determination of solubility product
10	1	Deriving empirical formula from elemental analysis
11	1	Deriving Molecular formula from elemental analysis
12	1	Deriving Molecular formula from elemental analysis
13	1	calculation of inter planar spacing for different planes in an orthorhombic crystal.
14	1	calculation of inter planar spacing for different planes in an orthorhombic crystal.
15	1	calculation of inter planar spacing for different planes in an orthorhombic crystal.
7	1	Determination of Electro negativity of an atom from bond energy data using pauling's relation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SANGA ILLKKIYAM - ETTUTHOGAI NOOLGALIL..., PURANANOORU 184, 204 AGANANOORU 219, 351
2	1	KURUNTHOGAI 20, 210 NATTRENAI 21,86
3	1	IYNGURUNOORU ANNAI VAZHI PATHU 1-5 PADALGAL KALITHOGAIYIL KURUNGHICALI 5 PADALGAL
4	4	ILLKKIYA VARALARU- ETTUTHOGAI NOOLGAL PATHINENKZHKKANAKIL NEETHI NOOLGAL
5	3	THIRUKKURALIL 3 ATHIGARANGAL ARATHUPPALIL VIRUNTHOMBAL PORUTPPALIL KALLAMAI INNBATHUPPALIL KURIPPARETHAL
6	1	ETTUTHOGAYIL PAREPADAL VAIYAI PADAL-10, 71- 131VAREGAL
7	4	ILLKKIYA VARALARU- PATHINENKZHKKANAKIL NEETHI NOOLGAL



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPATTU NOOLGALIL..., SIRUPANNATTUPADAI 111-145 ,235-261 VAREGAL
9	2	MULLAIPPATTU - 26-79 VAREGAL NAALLIYAKKODAN SIRAPPU
10	5	MOZHITHIRAN PATHIREGAIGALIL SEITHI VARAITHAL SURUKKI VARAITHAL
11	2	MADURAI KAANGHI 238- 270 VAREGAL THAMIZH NILATHIL AMAINTHA 5 NILAPPAGUTHIGALIN PANBUM VALAMUM
12	2	PATTINAPPALAIYIL 1-59 VAREGAL KAAVIREPOOMPATTINATHIN SIRAPPUGAL
13	5	MOZHITHIRANIL..., NEERKKAANAL
14	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL
15	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ELAYA KUMAR K</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>APH301T : ALLIED PHYSICS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bending of beams: Non uniform bending-Torsion of a wire-Torsional pendulum.
2	1	Sound: Transverse vibrations of a stretched string- expression for the velocity of transverse wave – laws of transverse vibrations.
3	1	A.C frequency measurement using sonometer- velocity of sound in a gas-Ultrasonics-production and uses.
4	2	Capacitor- energy of charged capacitors- loss of energy due to sharing of charges DC circuits
5	2	Growth and decay of charge containing resistance and capacitor (RC) circuit & inductance and resistance (LR) circuit
6	2	Potentiometer-measurement of internal resistance of a cell and unknown resistances – Moment, Tan C and pole strength of a magnet
7	3	Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate-Determination of diameter of a thin wire by air wedge

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spherical aberration – minimizing spherical aberration by using two thin lenses in contact
9	3	Chromatic aberration- achromatic combination of two thin lenses in contact- optical activity-specific rotatory power-polarimeter
10	4	Elements of relativity and Postulates of theory of relativity- Lorentz transformation equations-Derivation Addition of velocities-twin paradox Minkowski's four dimensional space
11	4	Quantum mechanics: De Broglie's waves - Uncertainty principle- postulates of wave mechanics
12	4	Schrödinger's equation (Time dependent one dimensional) - application to a particle in a box
13	5	Diodes, transistors, basic logic gates
14	5	Construction of AND, OR using diodes and NOT using transistor
15	5	IC-SSI LSI MSI-VLSI IC fabrication

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>APHP301 : ALLIED PHYSICS PRACTICAL</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction and Experiment demo
2	1	Experiment 1
3	1	Experiment 2
4	2	Experiment 3
5	2	Experiment 4
6	2	Experiment 5
7	3	Experiment 6

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Experiment 7
9	3	Experiment 8
10	4	Experiment 9
11	4	Experiment repetition
12	4	Experiment repetition
13	5	Model Lab
14	5	Model Lab
15	5	Model Lab

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## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	IMMANUEL S	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	19CHP303 : QUALITATIVE ORGANIC ANALYSIS - PRACTICAL III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	organic compounds Introduction
2	2	solubility ,Saturation ,unsaturation test demo
3	3	Aromatic ,aliphatic Special element test Demo
4	4	Functional groups demo
5	5	Organic compound-1
6	6	Organic compound-2
7	7	Organic compound-3

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Organic compound-4
9	9	Organic compound-5
10	10	Organic compound-6
11	11	Organic compound-7
12	12	Organic compound-8
13	13	Organic compound-9
14	14	Organic compound-10
15	15	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust
14	5	wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SHOBA D DR	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	APHP301 : ALLIED PHYSICS PRACTICAL	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	least count basic for screw gauge, vernier caliper, traveling microscope, spectrometer
2	1	Determination of Young's modulus –non-uniform bending -Pin and microscope
3	1	Determination of Rigidity modulus- Torsional pendulum (without masses).
4	1	Determination of Rigidity modulus – Static torsion
5	1	Sonometer – A.C frequency - Steel wire.
6	1	Sonometer – A.C frequency -Brass wire.
7	1	Sonometer –frequency of tuning fork.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	1	Figure of merit of a galvanometer (Table galvanometer).
10	1	Construction of AND, OR NOT gates using diodes and transistors.
11	1	revision lab
12	1	revision lab
13	1	revision lab
14	1	model exam 1
15	1	model exam 2
8	1	Spectrometer – Grating-Minimum deviation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	5
Subject	19CH509 : ORGANIC CHEMISTRY - III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	2.1 Conformational analysis of cyclohexane, mono and disubstituted cyclohexanes – Factors affecting stability
2	2	2.2 Optical isomerism, optical activity, optical and specific rotations, conditions for optical activity. Asymmetric center, chirality, achiral molecules, (+) and (-) and D and L notations,
3	2	Elements of symmetry, racemization, methods of racemization, methods of resolution, asymmetric synthesis (partial and absolute synthesis), Walden inversion.
4	2	2.3 Projection formula: Fischer, flying wedge, sawhorse and Newmann projection formulae and their interconversions- notations of optical isomers- Cahn- Ingold-Prelog rules, R and S notations for optical isomers with one or two asymmetric carbon atoms, ery.
5	2	2.4 Optical activity in compounds not containing asymmetric carbon atoms namely biphenyls, allenes, and spiranes.
6	1	Unit I Nitrogen containing compounds 1.1 Nomenclature and classification, Preparation 1.2 Nitrocompounds: aliphatic and aromatic nitro compounds, classification, general properties.
7	1	1.3 Reactions: reduction by a chemical and electrolytic method 1.4 Di- and tri-substitution of aromatic nitro compounds: synthesis of o-, m-, p-dinitrobenzenes and trinitrobenzene.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	1.5 Aromatic Amines. Preparation of primary, secondary and tertiary amines.
9	1	1.6 Reactions: basicity of amines, the effect of substituents on basicity of aromatic amines.
10	1	1.7 Diazonium salts: Preparation, diazotization reaction, Sandmeyer, and coupling reactions.
11	5	Carbohydrates: Structural elucidation of glucose and fructose – pyranose and furanose forms
12	5	determination of ring size – Haworth projection formula – epimerization
13	5	reactions of glucose and fructose – Osazone formation, mutarotation, and its mechanism – chain lengthening and chain shortening of aldoses
14	5	– interconversion of aldoses and ketoses.
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	19CH614 : ORGANIC CHEMISTRY - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	UNIT - IV: PERICYCLIC AND PHOTOCHEMICAL REACTIONS 4.1 Electrocyclic reactions of 4 and 6 pi - electron systems
2	4	4.2 Cycloaddition reactions – 2 + 2 and 4+2 additions
3	4	4.3 Sigmatropic rearrangements - 1,3; 1,5 and 3,3 sigmatropic rearrangements. Claisen and Cope rearrangements
4	4	4.3 Sigmatropic rearrangements - 1,3; 1,5 and 3,3 sigmatropic rearrangements. Claisen and Cope rearrangements
5	4	4.4 Photochemical reactions of carbonyl compounds: Norrish type – I and II reactions
6	5	UNIT - V: HETEROCYCLIC COMPOUNDS AND TERPENOIDS 5.1 Preparation, properties, and uses of furan, pyrrole, thiophene, pyridine, and piperidine. Comparative study of basicity of pyrrole, pyridine, and piperidine with amines.
7	5	5.1 Preparation, properties, and uses of furan, pyrrole, thiophene, pyridine, and piperidine. Comparative study of basicity of pyrrole, pyridine, and piperidine with amines.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.2 Six-membered rings: synthesis and reactions of quinoline, isoquinoline, and indole. Skraup synthesis, Bischler – Napieralski and Fischer- Indole Synthesis.
9	5	5.3 Terpenoids: Classification, isoprene rule, isolation, the structures of geraniol, citral, menthol, a-pinene, and camphor. Structural elucidation of menthol.
10	5	5.4 Alkaloids: definition, occurrence, extraction of alkaloids from plants, structural elucidation of coniine, piperine.
11	3	UNIT - III: OXIDATION AND REDUCTION 3.1 Oxidation with Cr(VI) and Mn(VII) reagents, Oxidation by peracids and DMSO with oxalyl chloride
12	3	3.1 Oxidation with Cr(VI) and Mn(VII) reagents, Oxidation by peracids and DMSO with oxalyl chloride
13	3	3.2 Catalytic hydrogenation and dehydrogenation
14	3	3.3 Reductions with LAH, NaBH <sub>4</sub> , and DIBAL. Birch reduction
15	3	3.4 Hydroboration and oxidation of alkenes and alkynes.

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### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>19ECH513 : CHEMISTRY OF INDUSTRIAL PRODUCTS</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Saponification of oils and fats – Manufacture of soaps – Formulation of Toilet soaps–Different ingredients used–Their functions–Medicated soaps. Herbal soaps–Mechanism of action of soap–Soft soaps–Shaving soaps and creams–ISI specifica...
2	1	Anionic detergents: Manufacturere of LAB (Linear Alkyl Benzene) – Sulphonation of LAB – preparation of acid slurry– Different ingredients in the formulation of detergent powders and soaps–Liquid detergents–Foam boosters–AOS (alpha-olefin sulph...
3	1	Cationic detergents: Examples– Manufacture and applications. Non-ionic detergents: Examples–Manufacture of ethylene oxide condensate.
4	1	Mechanism of action of detergents: Comparison of soaps and detergents– Biodegradation – environmental effects – ISI specifications and limits.
5	2	Manufacture of Sodium lauryl sulphate and Sodium Laureth sulphate: Ingredients–Functions–Different kinds of shampoos – anti-dandruff–anti-lice–herbal and baby shampoos.
6	2	Hair dye: Manufacture of conditioners – Coco betaines or coco diethanolamides – ISI specifications – Testing procedures and limits.
7	2	Introduction: Methods of dying – Classifications of dyes – Methods of application of dyes – Fluorescent brightening agent – non-textile uses of dyes

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Face and skin powders: Ingredients – functions – Different types – Snows and face creams – A chemical ingredients used – Antiperspirants.
9	3	Sunscreen preparation: UV absorbers – Skin bleaching agents – Depilatories – Turmeric and neem preparations – Vitamin oil.
10	3	Nail polishes: Nail polish preparation – Nail polish removers – Article removers – Lipsticks – roughs, eyebrow pencils – Ingredients and functions – hazards – ISI specifications.
11	4	Introduction: Manufacture of leather–Preparation of hides for tanning– Vegetable–chrome and oil tanning–tannery effluents–pollution control.
12	4	Introduction– manufacture of cane sugar– recovery of sugar from molasses–manufacture of sucrose from beetroot–testing and estimation of sugar.
13	4	Classification and examples for insecticides, fungicides, and herbicides –fluorine compounds, boron compounds, arsenic compounds, mercuric compounds, pyridine compounds – ill effects of the use of chemical fertilizers and insecticides.
14	5	Mechanism of lubrication: Classification of lubricants– lubricating oils– greases or semi-solid lubricants– solid lubricants and synthetic lubricants.
15	5	Explosives: Classification of explosives, primary explosives– high explosive and low explosive. Blasting fuses–manufacture of important explosives–propellants and rocket fuels– classification of propellants and uses.

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### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>ECH617T : MEDICINAL CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Development of new drugs– procedures followed in drug design–concepts of prodrugs and soft drugs–structure-activity relationship (SAR).
2	1	Theories of drug activity: Occupancy theory–rate theory–induced fit theory–Quantitative structure-activity relationship.
3	1	Concepts of drug receptors: Elementary treatment of drug-receptor interactions.
4	1	Introductions to pharmacokinetics and pharmacodynamics
5	2	Antibiotics Cell wall biosynthesis– inhibitors
6	2	$\beta$ -lactum rings–antibiotics inhibiting protein synthesis.
7	2	SAR of penicillin G – penicillin V– chloramphenicol– ciprofloxacin– tetracycline – streptomycin

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Introduction– cancer chemotherapy– special problems–the role of alkylating agents and antimetabolites in the treatment of cancer.
9	3	SAR of uracil– mustards– 6-mercaptopurine – Hormone and natural products.
10	3	Cardiovascular Drugs . Introduction – cardiovascular diseases– central intervention of cardiovascular output
11	3	Direct acting arteriolar dilators.
12	4	Introduction and general mode of action. SAR of sulphonamides
13	4	nalidixic acid –amino salicylic acid – isoniazid-chloroquine.
14	5	. Introduction – neurotransmitters– CNS depressants– a general anaesthetic– mode of action of hypnotics– sedatives– anti-anxiety drugs– benzodiazepines– buspirone– neurochemistry of mental diseases.
15	5	Antipsychotic drugs– the neuroleptics– antidepressants– butyrophenones– serendipity and drug development– stereochemical aspects of psychotropic drugs.

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### LESSON PLAN

Name of the Staff	<b>ANTONY SANDOSH T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Thermodynamics- Introduction
2	1	Thermodynamics- Terminologies.
3	1	the conservation of energy-systems and surroundings.
4	1	work and heat- explanation and problems.
5	1	the measurement of work- the measurement of heat.
6	1	Internal energy –enthalpy- the temperature variation of the enthalpy
7	2	Thermo chemistry- Introduction.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	physical change-the enthalpy of phase transition.
9	2	atomic and molecular change.
10	5	Phase equilibria-thermodynamics of transition
11	5	Condition of stability- Explanations.
12	5	variation of Gibbs energy with pressure- variation of Gibbs energy with temperature.
13	5	Phase diagrams –phase boundaries-location of phase boundaries-characteristic points
14	5	Phase rule –phase diagram for typical materials.
15	5	REVISIONS.

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### LESSON PLAN

Name of the Staff	<b>ANTONY SANDOSH T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>CH616T : THERMODYNAMICS OF IDEAL AND NON IDEAL SOLUTIONS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The properties of the mixture- thermodynamic description of mixture.
2	1	Measures of concentration –partial molar properties.
3	1	Spontaneous mixing-ideal solutions- Ideal –dilute Solutions.
4	1	Real solutions –Colligative properties-modification of boiling and freezing points- Osmosis.
5	1	Phase diagrams of the mixture- a mixture of volatile liquids- liquid – liquid phase diagrams.
6	1	Liquid-Solid-phase diagrams-ultra purity and controlled impurity.
7	3	Consequences of equilibrium-proton transfer equilibrium.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bronsted-Lowry theory –protonation and deprotonation.
9	3	Amphiprotic systems.
10	4	Electrochemistry –migration of ions- conductivity-specific, equivalent and molar conductance.
11	4	Ion mobility-Transport number and its determination (Hittorf's and moving boundary method.
12	4	Electrochemical cells.
13	4	Half reactions and electrodes –reactions at electrodes.
14	4	Fuel cells (H <sub>2</sub> -O <sub>2</sub> and hydrocarbon-O <sub>2</sub> ).
15	4	Batteries-Primary and Secondary batteries.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANAND G	Academic Year	2022-2023
Department	Chemistry	Semester	5
Subject	19CH510 : INORGANIC CHEMISTRY	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Chemistry of d-block elements - Characteristics of d-block elements - occurrence - oxidation states, magnetic properties, and colour
2	1	1.2 Metallurgical processes: Methods involved in ore concentration – magnetic separation, hydraulic washing, leaching, froath floatation process – conversion of concentrated ore in to metallic oxide – roasting, calcination, smelting – reduction o...
3	1	chemical method, reduction by other metals, electrolytic reduction – refining – bessemerisation, cupellation, electrolytic refining, Van Arkel method, vapour phase refining 1.3 Metallurgy of Ti, V, W, Cr
4	2	2.1 Coordination Chemistry: Definition of terms used – the difference between double salts and coordination complexes - Nomenclature of Co-ordination complexes - Classification of ligands.
5	2	2.2 Isomerism in complexes – ionization isomerism, hydrate isomerism, linkage isomerism, ligand isomerism,
6	2	coordination isomerism and polymerization isomerism - Geometrical and optical isomerism in tetra and hexacoordinated complexes – fac &mer isomers.
7	3	3.1 Werner's theory - Sidgwick's theory - EAN rule, - Valence bond theory – hybridization - geometry and magnetic properties - the failure of VBT

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Crystal field theory - Splitting of d-orbitals in octahedral, tetrahedral and square planar complexes - crystal field stabilization energy
9	3	calculation of CFSE in octahedral complexes - low spin and high spin complexes – explanation of magnetic properties and colour of complexes using CFT
10	4	4.1 consequences of CFSE on atomic radii, lattice energy, the heat of hydration - factors affecting CFSE
11	4	oxidation state, spectrochemical series, principal quantum number, geometry
12	4	4.2 Comparison of VBT and CFT. Trans effect and Jahn-Teller effect and its consequences
13	5	5.1 X-ray diffraction – Bragg's equation - the principle of X-ray diffraction - comparison of X-ray, electron and neutron diffraction
14	5	5.2 Radius ratio and coordination number of Crystal structure – NaCl, Rutile, Wurtzite, Zincblende, and CaF <sub>2</sub> , - Crystal defects – Schottky, Frenkel, types of metal excess and metal deficiency defects, and their consequences.
15	5	Metallic bond, Metallic properties, Band theory of metals, semiconductors - n and p-type semiconductors - Superconductors.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANAND G	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	19CH615 : INORGANIC CHEMISTRY - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chemistry of f-block elements; Occurrence, elements, oxidation states, Magnetic properties, colour and spectra - lanthanide contraction - causes, consequences and uses
2	1	Comparison between 3d and 4f block elements - comparative account of lanthanides and actinides. Nuclear Chemistry - Introduction of the nucleus - nuclear force acting between nucleons - N/P ratio, curves, stability belts
3	1	Packing fraction – isotopes - isobars, isotones, and isomers. Natural radioactivity. Detection and measurement of radioactivity: cloud chamber and GM counter - radioactive series including neptunium series
4	1	Group displacement law – the rate of disintegration and half-life period-average life period
5	1	Nuclear binding energy – Mass defect - simple calculations involving mass defect and binding energy per nucleon - magic number - liquid drop model - shell model.
6	2	Artificial radioactivity-induced radioactivity-uses of radioisotopes-hazards of radiation-nuclear fission- nuclear fusion-thermonuclear reaction-energy source of the sun and stars.
7	2	Nuclear reaction: Types & reactions - cross-section, Q-value, threshold energy, compound nucleus theory, direct reaction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Photonuclear reaction - Nuclear reactors: Breeder reactor and Fast breeder reactor - Particle accelerators - linear accelerators, cyclotrons, Synchrotrons.
9	3	Bioinorganic chemistry: Role of metal ions in biological systems Heme proteins – Fe - transport and storage of Dioxygen, structure, and function of hemoglobin, myoglobin.
10	3	Zn - Carboxypeptidase, Carbonic anhydrase – Mg - chlorophyll. Co-VitaminB12 - Mo-Nitrogen fixation - Na <sup>+</sup> /K <sup>+</sup> and Ca <sup>2+</sup> -pump.
11	4	Organo Metallic Chemistry – Compounds with transition metals to carbon bonds – classification of ligands
12	4	Nomenclature- 18 electron rule – Organometallic – metal alkyls – metal alkylidenes, metal alkylidyne.
13	4	Pi - Acceptor ligands, bonding, hybridizations, structures and properties of carbonyls of Ni, Cr, Fe, Co, Mn, W & V.
14	5	Organometallic Chemistry - Catalytic processes- Hydrogenation of olefin (Wilkinson's catalyst), Hydroformylation of olefins using cobalt catalysts (oxo process), oxidation of olefins to aldehydes (Wacker's process).
15	5	Polymerization of olefins (Zeigler-Natta catalyst); cyclo oligomerization of acetylene using nickel catalyst (Repee's catalyst); Polymer-bound catalyst-water gas shift reaction

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### LESSON PLAN

Name of the Staff	<b>PAUL AROKIADOSS</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Chemical change – standard enthalpy changes
2	2	the combination of reaction enthalpies-standard Enthalpies of formation
3	2	a variation of reaction enthalpy with temperature.
4	3	II law of thermodynamics-entropy –The Carnot Cycle – Carnot theorems
5	3	Entropy and Carnot cycle – Entropy a measure of randomness and probability.
6	3	The direction of spontaneous change
7	3	entropy and II law-entropy changes for typical processes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	entropy changes in the surroundings.
9	4	III law of thermodynamics- Nernst heat theorem
10	4	Gibbs-Duhem equation-effect of temperature and pressure on chemical potential
11	4	chemical potential in systems of ideal gases- Duhem-Margules equation.
12	4	Absolute entropies – standard reaction entropy.
13	4	4.2 The spontaneity of Chemical reactions
14	4	Gibbs free energy – focusing on the system properties of the Gibbs energy.
15	4	Gibbs free energy – focusing on the system properties of the Gibbs energy. Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PAUL AROKIADOSS</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>CHP607 : ANALYTICAL CHEMISTRY PRACTICAL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thin – layer chromatography.
2	1	Thin – layer chromatography.
3	1	Column chromatography.
4	1	Column chromatography.
5	2	a) Determination of strength of strong acid (HCl Vs NaOH).
6	2	b) Verification of Onsager's equation.
7	2	c) Determination of strength of a mixture of acids (HCl + CH <sub>3</sub> COOH Vs NaOH).



Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	a) Determination of single electrode potential.
9	3	a) Determination of single electrode potential.
10	3	b) Determination of pKa of weak acid using std. NaOH solution.
11	3	b) Determination of pKa of weak acid using std. NaOH solution.
12	4	Determination of unknown concentration using a photoelectric colorimeter.
13	4	Determination of unknown concentration using a photoelectric colorimeter.
14	5	Determination of pKa of acetic acid.
15	5	Determination of pKa of acetic acid.

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### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>ECH618 : POLYMER CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of polymer and types of polymer
2	1	Classifications of polymer based on structure
3	1	Classifications of polymer based on mechanism
4	1	Homogeneous and heterogeneous polymer
5	2	Crystalline polymer and morphology
6	2	Amorphous and crystalline polymer
7	2	Thermoplastics and thermosetting plastics

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Tg and Tm
9	3	Mouldings of polymer
10	3	Die causting and film causting
11	3	Compression and thermo foaming
12	3	Injection moulding and elastomers
13	4	Preparation method of PE, PVC,Baseline,Firetrading polymers,
14	4	Electrical conducting polymer
15	5	Bio medical polymer,and revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	DAVID AMALRAJ S Dr	Academic Year	2022-2023
Department	Chemistry	Semester	5
Subject	19CH509 : ORGANIC CHEMISTRY - III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Carbonyl polarization – reactivity the acidity of alpha hydrogen-malonic
2	3	the acidity of alpha hydrogen- acetoacetic and cyanoacetic esters
3	3	characteristic reactions of active methylene group – synthetic uses of malonic, acetoacetic and cyanoacetic esters
4	3	Diazomethane and diazoacetic ester: Preparation, structure and synthetic applications
5	3	Tautomerism: Definition- keto-enol tautomerism
6	3	identification, acid and base-catalyzed mechanisms, evidence – amido – imidol and nitro- acinitro tautomerisms
7	4	Classification as anionotropic, cationotropic, free radical, inter and intramolecular rearrangement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Pinacol-pinacolone rearrangement –mechanism, evidence for carbonium ion intermediate formation – migratory aptitude
9	4	Beckmann, Hoffmann, Curtius, Lossen Smith rearrangements
10	4	Benzilic acid and Baeyer Villiger rearrangements
11	4	Fries rearrangement
12	5	Amino acids: Classification and structure of amino acids
13	5	Gabriel phthalimide synthesis – Strecker synthesis
14	5	Erlenmeyer synthesis, peptide-Merrifield synthesis – End group analysis
15	5	Zwitterion, isoelectric point

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>ECH512 : ANALYTICAL TECHNIQUES</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	NMR spectroscopy: introduction
2	2	instrumentation – sample holder – magnet
3	2	instrumentation – sweep generator – radiofrequency generator – radio frequency receiver
4	3	NQR spectroscopy
5	3	Introduction – Instrumentation
6	3	ESR spectroscopy: Introduction
7	3	instrumentation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	source – circulator – sample cavity – magnet system – crystal detectors
9	3	Mass spectroscopy: Introduction – instrumentation – inlet system – ion source – electrostatic accelerating system – ion collector – vacuum system
10	5	Nephelometry and Turbidimetry: Introduction
11	5	instrumentation – sources – detectors – cells – turbidimeters - nephelometers
12	5	pH meter: Introduction
13	5	instrumentation – potentiometric type – direct reading type
14	5	Fluorimetry and Phosphorimetry: Introduction
15	5	instrumentation – fluorimeters & spectrofluorimeters

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>ECH618 : POLYMER CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Importance of polymers. Basic concepts: Monomers–repeating units – degree of polymerization–Linear, branched and network polymers
2	1	Classification of polymers: Polymerisation – condensation, addition, radical chainionic, and coordination and copolymerization
3	1	Polymerization conditions and polymer reactions. Polymerization in homogeneous and heterogeneous systems
4	1	Morphology and order in crystalline polymers
5	1	configurations of polymer chains Crystal structures of polymers.
6	1	Properties of Commercial Polymers
7	2	Polyethene, Polyvinylchloride,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	polyamides
9	5	phenolic resins, epoxy resins
10	5	silicone polymers.
11	5	Functional polymers – fire retarding polymers and electrically conducting polymers
12	5	Biomedical polymers
13	5	contact lens, dental polymers
14	5	artificial heart, kidney
15	5	skin and blood cells.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>CHP605 : PHYSICAL CHEMISTRY PRACTICAL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Determination of the transition temperature of the given salt hydrate: Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .5H <sub>2</sub> O, CH <sub>3</sub> COONa.3H <sub>2</sub> O, SrCl <sub>2</sub> .6H <sub>2</sub> O, MnCl <sub>2</sub> .4H <sub>2</sub> O
2	1	Determination of the transition temperature of the given salt hydrate: Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .5H <sub>2</sub> O, CH <sub>3</sub> COONa.3H <sub>2</sub> O, SrCl <sub>2</sub> .6H <sub>2</sub> O, MnCl <sub>2</sub> .4H <sub>2</sub> O
3	1	Determination of the transition temperature of the given salt hydrate: Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .5H <sub>2</sub> O, CH <sub>3</sub> COONa.3H <sub>2</sub> O, SrCl <sub>2</sub> .6H <sub>2</sub> O, MnCl <sub>2</sub> .4H <sub>2</sub> O
4	1	Determination of the transition temperature of the given salt hydrate: Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .5H <sub>2</sub> O, CH <sub>3</sub> COONa.3H <sub>2</sub> O, SrCl <sub>2</sub> .6H <sub>2</sub> O, MnCl <sub>2</sub> .4H <sub>2</sub> O
5	1	Phenol – water system – CST
6	1	Phenol – water system – CST
7	1	Effect of impurity – 2% NaCl or succinic acid solutions on the phenol-water system – determination of the concentration of the given solution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Effect of impurity – 2% NaCl or succinic acid solutions on the phenol-water system – determination of the concentration of the given solution.
9	1	Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.
10	1	Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.
11	1	Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.
12	1	Acid-catalyzed the hydrolysis of an ester (methyl or ethyl acetate).
13	1	The distribution coefficient of Iodine between water and CCl <sub>4</sub> .
14	1	Model Practical-I
15	1	Model Practical-II

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHAKIARAJ D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>ECH512 : ANALYTICAL TECHNIQUES</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1. Introduction: Introduction to instrumental methods of chemical analysis.
2	1	1.2. Microwave spectroscopy: Introduction–instrumentation–the source and monochromator–sample and sample space–detector–spectrum analyzer–working.
3	1	1.3. IR-spectroscopy: Introduction – source - monochromators
4	1	sample cells & sampling substances – a sampling of solids – detector – bolometers – thermocouples – thermistors – Golay cell – photoconductivity cell – single beam & double beam spectrometers.
5	2	2.1 Raman spectroscopy: Introduction – instrumentation
6	2	Instrumentation – the source of light – filters – sample holder – spectrograph.
7	2	2.2 UV spectroscopy: Introduction–instrumentation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Instrumentation–radiation source – monochromators–detectors–recording system–sample cells–power supply.
9	4	4.1 Mossbauer spectroscopy: Introduction
10	4	4.1 Mossbauer spectroscopy: – instrumentation.
11	4	4.2 Atomic absorption spectroscopy: Introduction – instrumentation.
12	4	Instrumentation –radiation source – chopper – production of the atomic vapour – nebulization of the liquid sample – monochromators – detectors – amplifiers
13	4	4.3 Flame photometry: Introduction.
14	4	4.3 Flame photometry: – Instrumentation.
15	4	Instrumentation – burner – mirrors – monochromators – filters - detectors.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prathani) Pavalaru Paruchiyhiranar - Kanicharu
4	1	Kanadasan - Thavru - manipu
5	5	Ilakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendiru Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathi - orunal Kazinthzthu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 PALLAVAR KAALAM - ILAKKIYANGAL
2	1	1.1 VALLALAR - THIRUVARUT KODAI (4798, 4799, 4802) 1.2 THIRUNANA SAMBANTHAR MUDHAL THIRUMURAI - THIRU AALAVAUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)
7	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SOUSSITRA A Dr.	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	21LT02 : TAMIL - II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Pallavar kalam
2	1	Vallalar - thiruvarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identifying the groups of the basic Radical..
2	1	1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identifying the groups of the basic Radical..
3	1	1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identifying the groups of the basic Radical..
4	1	1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identifying the groups of the basic Radical..
5	1	4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium
6	1	4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium
7	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)
9	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)
10	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)
11	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)
12	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)
13	1	5. Analysis of mixtures containing two cations and two anions (of which one is interfering)
14	2	PREPARATION OF INORGANIC COMPOUNDS
15	2	PREPARATION OF INORGANIC COMPOUNDS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>19CHP101 : PRACTICAL - I : VOLUMETRIC ANALYSIS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Estimation of Iron (II) Sulphate by $\text{KMnO}_4$ using a standard Mohr's salt solution
2	1	Estimation of Iron (II) Sulphate by $\text{KMnO}_4$ using a standard Mohr's salt solution
3	1	Estimation of $\text{Na}_2\text{CO}_3$ by $\text{HCl}$ using a standard $\text{Na}_2\text{CO}_3$ solution
4	1	Estimation of $\text{Na}_2\text{CO}_3$ by $\text{HCl}$ using a standard $\text{Na}_2\text{CO}_3$ solution
5	1	Estimation of Oxalic acid by $\text{KMnO}_4$ using a standard oxalic acid solution
6	1	Estimation of Oxalic acid by $\text{KMnO}_4$ using a standard oxalic acid solution
7	1	Estimation of Magnesium (II) by EDTA solution.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Estimation of Magnesium (II) by EDTA solution.
9	1	Estimation of Magnesium (II) by EDTA solution.
10	1	Estimation of Magnesium (II) by EDTA solution.
11	1	Estimation of Copper (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> solution.
12	1	Estimation of Copper (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> solution.
13	1	Estimation of Copper (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> solution.
14	1	Estimation of Copper (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> solution.
15	1	Estimation of Copper (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> solution.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>20CH204 : ANALYTICAL CHEMISTRY - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Theory of Errors – the idea of significant figures and its importance with examples – Precision, Accuracy- methods of expressing accuracy
2	1	Error analysis – minimizing errors – method of expressing precision – average deviation – Standard deviation – Confidence limit.
3	2	Definitions of Molality – Normality – Mole fraction and their calculations – Definition and examples for primary and secondary standards – Calculation of equivalent.
4	2	Theories of acid-base – Redox, complexometric and Iodometric titrations – Problems on Volumetric analysis-strengths of solutions – Theories of indicators – acid, base, redox, metal ion, and adsorption indicators and choice of indicators.
5	3	Chemical formulae and percentage composition – Determination of empirical Formulae – and molecular formulae.
6	3	Laws of chemical combination: Law of conservation of mass – Law of constant composition – Law of multiple proportions – Law of reciprocal proportions – Gay Lussac's law of Gaseous volumes. Equivalent weights of Compounds
7	3	methods of determination of equivalent weights using hydrogen displacement method, oxide method, chloride method, metal displacement method – problems based on the law of normalities for acid, Alkali titrations – the concept of double and back titrat...



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Chemical Instrumentation: Elementary Electronics, Simple integrated circuit, Power supply, transformer, Operational amplifier
9	4	Detectors (Oscilloscope and recorders), transducers, Rectifiers, Signal to noise ratio, Electronic components (Resistors, capacitors, inductors, and transistors),
10	4	Semiconductor, measuring instruments for pressure, temperature, current, and voltage. Semiconductor, measuring instruments for pressure, temperature, current, and voltage.
11	5	Chromatographic technique – the principle of chromatography – definition of the terms – R <sub>f</sub> value
12	5	paper chromatography – principle and applications
13	5	thin layer chromatography – theory and applications
14	5	Column chromatography – principle and applications – ion exchange chromatography – principle, types and applications.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1 IRUPATHAM NOOTRANDU KAVINJARGAL
2	1	1.1 BHARATHIYAR - KANINILAM 1.2 BHARATHI THASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKALKAVINJAR - PIRAATHANAI 1,4 PAAVALARERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5 KANNADHASAN - THAVARU MANNIPU 1.6 SURATHAA - MELAADAI
5	5	5.1 MUDHAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2 VALLOTRU MIGUM IDAM 5.3 VALLOTRU MIGA IDAM
7	3	3.2 PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1 ARIVUMATHI - POOTHA NERUPPU 2,2 MEERA - PILLAI THAMIZH
9	2	2.3 ERODU THAMIZHANBAN - VETRI MUGAM 2.4 VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5 SIRPI - ABDUL KALAAMIN VEENAI
11	2	2.6 iI HAIKOO KAVITHAIGAL
12	2	2.6 II SENTRIYU KAVITHAIGAL
13	3	3.3 SIRUKATHAIYIN THOTRAMUM VALARCHIYUM
14	4	4.1 KADAVULUM KANTHASAMI PILLAIYUM 4.2 ORU NAAL KAZHINTHATHU
15	4	4.3 KAALANUM KIZHAVIUM 4.4 AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	21LT02 : TAMIL - II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. PALLAVAR KAALAM - ILLAKIYANGAL
2	1	1.1. VALLALAAR - THIRUVARUTKODAI ( 4798, 4799, 4802) 1.2. THIRUNANASAMPANTHAR - MUDAL THIRUMURAI - THIRU AALAVAYUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (1 - 6)
7	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (7 - 11)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irupatham nootrandu kavingargal.
2	1	Bharathiyar-Kaani Nilam Vendum, Bharathidasan-Nattiyal Nattuvom.
3	1	Namakkal kavignar-Tamizan Idhayam.Perunchithiranar-Kanisaru.
4	1	Kannadasan-Tavaru Mannippu,Suratha-Malatai.
5	5	Mudhal Ezhuthukal,Sarbu Ezhuthukal.
6	5	Vallinam Migum Idangal,Vallinam Miga Idangal.
7	3	Puthukavithai thotramum valarchiyum.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi-pootha neruppu,Meera-pillaitamil.
9	2	Erode Tamilanban-Vetri mugam, Vairamuthu+Suthanthiram.
10	2	Cirpi-Abdul kalam in veenai.
11	2	Haikku Kavitaikal.
12	2	Senrya Kavitaikal.
13	3	Sirukathi thotramum valarchiyum.
14	4	Kadavulum kandasamy pillaiyum,Oru naal kazhinthathu.
15	4	Kalanum kizhaviyum,Akalyai.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam Ilakkiyangal
2	1	Vallalar - Thiruvart kodai, Thiru Gnana Sampanthar - Thiru Aalavayum
3	1	Periyazhvar - Thirupallandu, Nammazhvar - Patham thirivai mozhi
4	1	Vanna kalanchiya pulavar - Kuthpu nayaga puranam Theen vilakkam, Vethanagam pillai - Neethu nool
5	4	Urainadai thotramum valarchiyum
6	3	Urainadai - Pavanaar nokkil Arinar perumakkal 1-5
7	3	Urainadai - Pavanaar nokkil Arinar perumakkal 6-10



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai - Pavanaar nokkil Arinar perumakkal 11-16
9	4	Nayakkar kala Ilakkiyangal
10	2	Pala pattadai sokkanatha pulavar - Azhagar killai vidu thoothu
11	2	Pakazhi koothar - Thiruchendur murugan pillai tamizh muthaparuvam, kumara kuruparar- Marurai Meenatchiyammai Irattai manimalai
12	4	Sidhar Ilakkiam - Arimugam
13	2	Arunagiri Nathar - Thuruppugazh, Siva vakkiyar Padalgal
14	2	Pattinathar -thiruthillai
15	5	Yappilakanam - Ezhuthu, Asai, Seer, Adi, Vetru poruvaippu ani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SAVITHAMARY A	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	AMT202T : ALLIED MATHEMATICS - II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansions of $\sin n^\circ$ , $\cos n^\circ$ ?
2	1	Expansions of $\sin n^\circ$ , $\cos n^\circ$ ,
3	1	Expansions of $\tan n^\circ$ ?
4	1	Expansions of $\sin^\circ$ , $\cos^\circ$ , $\tan^\circ$ in terms of ?
5	1	Expansions of $\sin^\circ$ , $\cos^\circ$ , $\tan^\circ$ in terms of ?
6	1	Hyperbolic functions
7	1	inverse hyperbolic functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Logarithms of complex numbers.
9	1	Logarithms of complex numbers.
10	4	Green's theorem in the plane- simple applications
11	4	Green's theorem in the plane- simple applications
12	4	Gauss divergence theorem-simple applications
13	4	Gauss divergence theorem-simple applications
14	4	Stoke's theorem -simple applications
15	4	Stoke's theorem -simple applications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sound - consonants 1.Meeting people, exchanging greetings & taking leave 2.Introducing people to others
2	1	Prose: Forgetting- Robert Lynd 1.Letter - writing - informal letters 2.The sentence 3.Parts of speech
3	2	Speech sounds - pure vowels 1.Giving personal information 2.Talking about people
4	2	Poem: Mending Wall - Robert Frost 1.Letter - writing- formal letters 2.Nouns - Classes and Gender 3.Nouns - Number and case 4.Adjectives 5.Comparison of Adjectives
5	3	Diphthongs 1.Taking and leaving messages 2.Making enquiries on the phone
6	3	Poem : Time and Love - William Shakespeare 1.Dialogue writing 2.Articles 3.Pronouns- personal, reflexive and emphatic 4.Pronouns - Demonstrative, Indefinite, interrogative, Distributive and Reciprocal 5.Pronouns- Relative
8	4	Phonetic transcription ( words ) Answering the telephone and asking for someone

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	1.Prose : Mother Teresa - John Frazer 2. One - Act Play: The Best Laid Plans - Farrel Mitchell
10	4	1.Reading comprehension 2.Verbs - Transitive and Intransitive 3.Verbs - Active and Passive Voices
11	5	Voiced and voiceless sounds Dealing with a wrong number
12	5	Short story : The Selfish Giant - Oscar Wilde
13	5	1.Verbs - Mood and Tense 2.Concord or Agreement of the Verbs with the subject
7	0	I CIA EXAMINATIONS
14	0	II CIA EXAMINATIONS
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANJAL MOSE S Dr.	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	AMT202T : ALLIED MATHEMATICS - II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Vector functions, Derivative of a vector function
2	3	Scalar and vector point functions,
3	3	Gradient of a scalar point function
4	3	Gradient, Directional derivatives
5	3	Gradient, Directional derivatives
6	3	Unit vector normal to a surface
7	3	Angle between the surfaces

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Divergence and curl.
9	3	Divergence and curl.
10	5	Operator E, Relation between and E
11	5	Operator E, Relation between and E
12	5	Interpolation – Newton – Gregory forward & backward formulae for interpolation
13	5	Lagrange's interpolation formula for unequal intervals
14	5	Lagrange's interpolation formula for unequal intervals
15	5	Lagrange's interpolation formula for unequal intervals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Precis Writing                      2. Non – Finite Verbs
2	1	3. Strong and Weak Verbs              4. The Auxiliaries
3	2	Note Making
4	2	2. Use of wrong 3. Unnecessary use of Articles
5	3	Report Writing                      2. Punctuation and Capitals
6	3	Report Writing                      2. Punctuation and Capitals
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Sentence Transcription
9	4	Sentence Transcription
10	4	Paragraph Writing                      2. Personal Details
11	5	Transcribing short passages
12	5	Transcribing short passages
13	5	Use of wrong tenses              2. The uses of prefixes and suffixes
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I Listening: Triphthongs II Speaking: 1. Making Requests and Responding to Requests 2. Thanking someone and Responding to thanks
2	1	III Reading: Prose: How to be a Doctor - Stephen Leacock IV Writing: 1. Precis Writing 2. Non – Finite Verbs 3. Strong and Weak Verbs 4. The Auxiliaries
3	2	I Listening: Strong and Weak Forms in Transcription II Speaking: 1. Inviting and Accepting and Refusing an Invitation 2. Apologising and Responding to an Apology
4	2	III Reading: Poem: Auguries of Innocence – William Blake IV Writing: 1. Note Making 2. Use of wrong Preposition 3. Unnecessary use of Articles
5	3	I Listening: The Relationship between Spelling and Sound II Speaking: 1. Paying Compliments, Showing Appreciation, Offering Encouragement and Responding to them. ...
6	3	III Reading: Prose: My Vision for India – A.P.J. Abdul Kalam IV Writing: 1. Report Writing 2. Punctuation and Capitals
7	1	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	I Listening: Sentence Transcription II Speaking: Describing Daily Routines
9	4	III Reading: 1. Poem: If – Rudyard Kipling 2. One-Act Play: The Merchant of Venice -William Shakespeare - 'Trial for a Pound of Flesh'
10	4	IV Writing: 1. Paragraph Writing 2. Personal Details
11	5	I Listening: Transcribing short passages II Speaking: Asking for directions and giving directions
12	5	III Reading: Biography: Kiran Bedi- Parmesh Dangwal
13	5	IV Writing: 1. Use of wrong tenses 2. The uses of prefixes and suffixes
14	5	Revision
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>19CHP101 : PRACTICAL - I : VOLUMETRIC ANALYSIS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Demo class-1 Volumetric Analysis
2	1	Demo class-2 Volumetric Analysis
3	1	Estimation of Iron (II) Sulphate by $\text{KMnO}_4$ using a standard Mohr's salt solution
4	1	Estimation of $\text{Na}_2\text{CO}_3$ by $\text{HCl}$ using a standard $\text{Na}_2\text{CO}_3$ solution
5	1	Estimation of Iron (II) Sulphate by $\text{K}_2\text{Cr}_2\text{O}_7$ using a standard Mohr's salt solution
6	1	Estimation of Copper (II) Sulphate by $\text{K}_2\text{Cr}_2\text{O}_7$ solution
7	1	Estimation of Magnesium (II) by EDTA solution

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Estimation of HCl by NaOH using a standard oxalic acid solution
9	1	Estimation of Oxalic acid by KMnO <sub>4</sub> using a standard oxalic acid solution
10	2	Estimation of total Hardness of water
11	2	Estimation of Bleaching powder
12	1	Estimation of Oxalic acid by KMnO <sub>4</sub> using a standard oxalic acid solution
13	1	Estimation of Iron (II) Sulphate by K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> using a standard Mohr's salt solution
14	1	Estimation of Na <sub>2</sub> CO <sub>3</sub> by HCl using a standard Na <sub>2</sub> CO <sub>3</sub> solution
15	1	Model Exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTURI KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>CH101B : ORGANIC CHEMISTRY - I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	IUPAC nomenclature of organic compounds- naming of simple organic Molecules, practising line formula for organic molecules. The geometry of molecules – Hybridisation - sp <sup>3</sup> , sp <sup>2</sup> , sp with examples.
2	1	Cleavage of Bonds – Homolytic and heterolytic cleavage. Bond energy, Bond length, and Bond angle.
3	1	Electron displacement effects – inductive, inductomeric, electromeric, resonance, hyperconjugation and steric effects. Reactive Intermediates: Carbocations, Carbanions, Carbenes, and free radicals.
4	2	Alkanes – methods of preparation: Wurtz reaction, hydrogenation of alkenes, hydrolysis of Grignard reagents, Kolbe's method. Physical and Chemical properties of alkanes.
5	2	Cycloalkanes – Preparation using Wurtz's reaction – Dieckmann's ring closure and reduction of aromatic hydrocarbons.
6	2	Substitution and ring-opening reactions of cycloalkanes. Bayer's strain theory and theory of strainless rings.
7	3	Alkene Nomenclature - structure and bonding - Isomerism in Alkenes – properties – stability.



Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of Alkenes – Elimination reactions: Dehydration of Alcohols, Dehydrohalogenation of Alkyl halides. E1 and E2 mechanism. Hofmann and Saytzeff's rules – Problems related to this mechanism
9	3	Addition Reactions of Alkenes: Hydrogenation, Halogenation, Hydrohalogenation - mechanisms – Markovnikov's and Anti Markovnikov's rule. Mechanism of Hydration, Hydroboration, Ozonolysis, Hydroxylation with KMnO <sub>4</sub> . Self-addition. Polymerization of Et...
10	4	Alkynes – Sources of Alkynes - Nomenclature – the acidity of alkynes – addition reactions – hydrogenation, Hydrohalogenation, Hydration with HgSO <sub>4</sub> .
11	4	Preparation of Alkynes by elimination reactions, Ozonolysis of alkynes Alkylation of alkynes through acetylides.
12	4	Dienes - preparation of dienes, classes of dienes - conjugated, isolated and cumulative - stability of dienes - the addition of hydrogen halides & halogens to conjugated dienes - Polymerization of dienes– Diels-Alder reaction - Problems Allenes – Str...
13	5	Conformational isomerism: Conformers, Dihedral angle, torsional strain.
14	5	Conformational analysis of ethane and n-butane.
15	5	Geometrical isomerism: Cis – trans, syn-anti and E-Z notations, Methods of distinguishing geometrical isomers using melting point, dipole moment, dehydration, cyclization and heat of hydrogenation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	1
Subject	CH101B : ORGANIC CHEMISTRY - I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 IUPAC nomenclature of organic compounds- naming of simple organic molecules, practising line formula for organic molecules.
2	1	1.2 The geometry of molecules – Hybridisation - sp <sup>3</sup> , sp <sup>2</sup> , sp with examples.
3	1	1.3 Cleavage of Bonds – Homolytic and heterolytic cleavage.
4	1	1.4 Bond energy, Bond length, and Bond angle. 1.5 Electron displacement effects – inductive, inductomeric effect
5	1	electromeric, resonance, hyperconjugation and steric effects
6	1	1.6 Reactive Intermediates: Carbocations, Carbanions, Carbenes, and free radicals
7	3	Addition Reactions of Alkenes: Hydrogenation, Halogenation, Hydrohalogenation - mechanisms – Markovnikov's and Anti Markovnikov's rule.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mechanism of Hydration, Hydroboration, Ozonolysis, Hydroxylation with $\text{KMnO}_4$ .
9	3	Self-addition. Polymerization of Ethylene and Propylene problems
10	4	4.1 Alkynes – Sources of Alkynes - Nomenclature – the acidity of alkynes –
11	4	Addition reactions – hydrogenation, Hydrohalogenation, Hydration with $\text{HgSO}_4$ .
12	4	Preparation of Alkynes by elimination reactions, Ozonolysis of alkynes Alkylation of alkynes through acetylides.
13	4	Dienes - preparation of dienes, classes of dienes - conjugated, isolated and cumulative - stability of dienes
14	4	The addition of hydrogen halides & halogens to conjugated dienes - Polymerization of dienes– Diels-Alder reaction - Problems
15	4	Allenes – Structure and preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Chemistry	Semester	4
Subject	LT404A : TAMIL - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiyavaralaru - Etuthogai
2	1	Purananooru - 184, 204 Agananooru - 219, 351
3	1	Kurunthogai -20, 210 Nartinaai - 21, 81
4	1	Ingurunooru - annai Pathu 1 - 5 Kalithogai - Kuringikali
5	1	Paribadal 71 - 131
6	4	Ilakiyavaralaru - Keelkanakil Neethi Noolgal
7	3	Thirukural - Virunthombal , Kalaamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural - Kalaamai, Kuriparithal
9	4	Ilakiyavaralaru - Pathupattu
10	2	Sirupaanartupadai - 111 - 145, 235-261
11	2	Mullaipatu - 26 - 79
12	2	Maduraikangi - 238 - 270
13	2	Patinapalai - 1 - 59
14	2	Patinapalai - 1 - 59
15	5	Mozhithiran

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VANATHAIYAN M Dr.	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	LT303A : TAMIL - III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Kapiyangal - imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	PiraKapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthuva Kapiyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilayankudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Etuthokai
2	2	Purnanauru Agananuru
3	3	Kurunthokai Natrinai
4	4	Aingurunuru Kalithokai
5	5	Paripaadal
6	6	Keezhkanaku Noolgalil Needhi Noolgal
7	7	Virundhombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Kalamai Kuriparidhal
9	9	Pathupaatu
10	10	Sirupaanatrupadai
11	11	Mullaipaatu
12	12	Madhuraikaanji
13	13	Patinapaalai
14	14	Patinapaalai
15	15	Pathirikaigalil Seidhi Varaidhal Suruki Varaidhal Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock-Interviews/Actual Interviews Facing an Interview Tele-Interviews
2	1	Drama: Julius Caesar - Funeral Oration - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 1-10) Description
3	2	Words often Confused Seminar Skills
4	2	Drama: Macbeth - He Kills Sleep - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 10-11) Idioms and Phrases
5	3	Homonyms and similar words Tele-conferences Handling Customer or Clients Receiving Visitors
6	3	Drama: Henry IV (Part-I) - Play Out A Play - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 21-30) The use of Graphics
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making Small Talk and Telling Stories
9	4	Drama: As You Like It - Patterns of Love - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40)
10	4	Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40) Negotiations
11	5	Group Discussions Making Appointments Cancelling and Rescheduling Appointments
12	5	Drama: Hamlet - Churchyard - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-50)
13	5	Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-50) Writing Review of Books
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>CH306S : ANALYTICAL CHEMISTRY - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Characteristics of precipitating agents- Choice of precipitants and conditions of precipitation – Specific and selective precipitants- Use of sequestering agents- Co-precipitation- Post precipitation-
2	1	Peptisation- Differences- Reduction of error –Precipitation from homogeneous solution- Calculations in gravimetric methods- use of gravimetric factors.
3	1	The principle involved in thermogravimetric analysis and differential thermal analysis- Discussion of various components with block diagram- Characteristics of TGA, DTA & DSC - Factors affecting TGA & DTA curves.
4	2	Principles involved in the separation of solids- Purification of solid organic compounds- Crystallisation-
5	2	Fractional crystallization- Sublimation
6	2	Purification of liquids- Experimental techniques of distillation- Fractional distillation- Vacuum distillation - Steam distillation
7	3	Principle – concentration polarization - convention- migration and diffusion currents- Ilkovic equation (derivation not required) and significance - capillary solutions- current voltage curve - Polarography as an analytical tool in quantitative & qual...

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cyclic Voltammetry – basic principle & uses. Polarimetry principle- instrumentation- comparison of strengths of acids- Estimation of glucose.
9	4	Absorption laws- calculations involving Beer – Lambert’s law – instrumentation – photocalorimeter and spectrophotometer – block diagram with a description of components with the theory – types of electronic transitions
10	4	chromophore – auxochromes – absorption bands and intensity – factors governing absorption maximum and intensity
11	44	Bragg’s equation – explanation of terms – experimental methods – Rotating crystal technique – powder technique – determination of the structure of NaCl.
12	5	Hardness of water – Hard water – soft water – Temporary and permanent hardness- problems on calculating temporary and permanent hardness – Estimation of hardness using EDTA method and their problems
13	5	Water treatment – lime soda process – calculation of amount of soda lime required for water softening – zeolite process – problems
14	5	Demineralisation process – Reverse osmosis – Electrodialysis - biological oxygen demand –
15	5	chemical oxygen demand - treatment of domestic water supply – sedimentation – coagulation – filtration – sterilization of water.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>19CH408 : INTRODUCTION TO MOLECULAR STRUCTURE</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Quantum Chemistry – the failures of classical physics-black body radiation
2	1	Photo electric effect –diffraction of electrons s orbitals-p and d orbitals-electron spin
3	1	Quantum numbers- wave functions Schrodinger equation –the Born interpretation-uncertainty principle.
4	2	Chemical bond-classification of bonds-potential energy curves-VBT-diatomic molecules-polyatomic molecules.Molecular orbitals-linear combinations of atomic orbitals- bonding orbitals -anti bonding orbitals-structure of diatomic molecules- hydrogen and hel.
5	2	promotion and hybridization-resonance.
6	3	Electric and magnetic properties – Clausius - Mosotti equations – Debye equation – measurement of dipole moments – dependence of polarizability on frequency.
7	3	Molar refractivity – dipole moments and molecular structure – magnetic permeability – magnetic susceptibility



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	diamagnetism – Para magnetism – measurement of magnetic susceptibility
9	4	Group theory – symmetry elements and operations –classes and subgroups –group multiplication table- postulates of a group.
10	4	Solid-state- Amorphous and crystalline- classification of crystalline solids- bonding and electrical conductivity in solids – crystal lattices and unit cells-Bravais lattices.
11	5	General features of spectroscopy – experimental techniques – intensities & line widths
12	5	Rotational spectroscopy-the rotational energy levels of molecules-rotational transitions-microwave spectroscopy-rotational Raman spectra.
13	5	Vibrational spectroscopy – the vibrations of molecules – transitions- vibrational Raman spectra of diatomic molecules-vibrations of polyatomic molecules and vibrational Raman spectra of polyatomic molecules.
14	5	Electronic transitions – UV and visible spectra –Franck Condon principle-measures of intensity-spin selection rules, spectral transitions and types of transitions.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>ACCH401S : ALLIED - COMPUTER IN CHEMISTRY</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Programming Language:History of Computer-Introduction to Algorithm-Flowchart-Structure of Programming Languages
2	1	C Fundamentals: Character set – Identifiers - keywords - Data types-Constants –Variables – Declarations – Expressions – Statements.
3	2	Control Statements: Data Input/Output functions - Simple C programs - Operators - Library functions
4	2	flow of control-control structures - switch, break and continue - Go to statement
5	3	Functions: Defining, accessing functions - functions prototypes-storage classes.
7	3	shapes of molecules or ions using VSEPR theory - deriving empirical formula from elemental analysis – calculation of PH and POH – determination of solubility of sparingly soluble salts – calculation of inter planar spacing for different planes...
8	4	Arrays: Defining and processing – Types of Arrays- string Functions-strlen()–strcpy()–strcat()– strcmp()–strlwr()–strupr()–strrev()– Structures.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	5	Normality, Molarity and Molality of Solutions –Calculation of Equivalent weight of acids, bases and salts.
11	5	Introduction to CHEM DRAW-Application of CHEM DRAW and ISIS Draw for ORGANIC and INORGANIC molecules
12	5	Introduction to CHEM DRAW-Application of CHEM DRAW and ISIS Draw for ORGANIC and INORGANIC molecules
13	5	Introduction to CHEM DRAW-Application of CHEM DRAW and ISIS Draw for ORGANIC and INORGANIC molecules
14	5	Introduction to CHEM DRAW-Application of CHEM DRAW and ISIS Draw for ORGANIC and INORGANIC molecules
15	5	Introduction to CHEM DRAW-Application of CHEM DRAW and ISIS Draw for ORGANIC and INORGANIC molecules
6	3	Determination of Electro negativity of an atom from bond energy data using pauling's relation – determination of Lattice Energy of a Crystal using born-Lande equation –
9	5	Determination of Half Life and Average Life of a Radioactive nucleus

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>19CHP303 : QUALITATIVE ORGANIC ANALYSIS - PRACTICAL III</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
2	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
3	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
4	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
5	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
6	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
7	1	OXIDATION: Preparation of benzoic acid from benzaldehyde.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
9	1	ACETYLATION: Preparation of acetyl derivatives of aniline, salicylic acid, and glucose.
10	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
11	1	HALOGENATION: Preparation of p-bromoacetanilide.
12	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
13	1	NITRATION: Preparation of m-dinitrobenzene and p-nitroacetanilide.
14	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)
15	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and Halogens). (Microscale)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>ACCH401S : ALLIED - COMPUTER IN CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Programming Language: History of Computer-Introduction to Algorithm
2	1	Flowchart-Structure of Programming Languages C Fundamentals: Character set – Identifiers
3	1	keywords - Data types-Constants –Variables
4	1	Declarations – Expressions – Statements.
5	2	Control Statements: Data Input/Output functions - Simple C programs
6	2	Operators - Library functions-flow of control-control structures
7	2	switch, break and continue - Go to statement.



Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Functions: Defining, accessing functions
9	3	functions prototypes-storage classes.
10	3	Determination of Electro negativity of an atom from bond energy data using pauling's relation – determination of Lattice Energy of a Crystal using born-Lande equation – shapes of molecules or ions using VSEPR theory
11	3	deriving empirical formula from elemental analysis – calculation of PH and POH – determination of solubility of sparingly soluble salts – calculation of inter planar spacing for different planes in an orthorhombic crystal.
12	4	Arrays: Defining and processing – Types of Arrays
13	4	string Functions-strlen()-strcpy()-strcat()- strcmp()-strlwr()-strupr()-strev()- Structures
14	4	Determination of Half Life and Average Life of a Radio active nucleus
15	4	Determination of Normality, Molarity and Molality of Solutions –Calculation of Equivalent weight of acids, bases and salts

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMAVATHI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	basic c programs
2	1	Determination of electro negativity of an atom from Bond Energy data using Paulings relation
3	1	example programs using control structures
4	2	Determination of Lattice energy of a crystal using Born-Lande Equation
5	2	example programs using functions
6	3	Deriving the Shapes of molecules or ions using VSEPR Theory
7	3	Deriving Empirical Formula from Elemental Analysis

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determination of PH and POH
9	3	Determination of Solubility of sparingly soluble salts
10	4	Determination of Normality, Molarity and Molality of the solution
11	4	Determination of Half life and average life of a radioactive nucleus
12	4	basic programs in arrays
13	4	Determination of Inter-Planar Distance for Planes
14	4	basic programs using strings
15	4	Determining the Equivalent Weight of Acids, Base and Salts

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Aimperum kappiyangal
2	4	Aimsiru kappiyangal
3	4	Irattai kappiyam
4	1	Silapathikaram-kunrakkuravai.
5	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(1-60).
6	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(61-129).
7	2	Seevagasinthamani-Naamagal Ilambagam.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai vaanoli nigazhahi thoguppu, vadikaiyalar sevai maiya aluvalar, sutrula vazegate,kadithangal,pothu katturai.
9	4	Pira kappiyangal
10	2	Kambaramayanam-kaikayi suzhvinai padalam.
11	4	Christava kappiyangal.
12	4	Islam kappiyangal.
13	3	Periyapuramam-Ilayankudi mara nayanar.
14	3	Thembavani-Sethayan vetri padalam.
15	3	Seerapuramam-kama padalam.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettu thokai noolkal
2	1	Purananuru - 184, 204 ; Akananuru - 219, 351
3	1	Kunthogai - 20, 210; Natrinai - 21, 86
4	1	Ienkurunuru - Annaye pathu 1-5, Kalithogai - Kurinchikali 5
5	1	Paripadal - Vaiyai patham padal 71-131
6	4	Keezhkanakku noolkalil neethi noolkal
7	3	Thirukkural - Virunthombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Kallamai, Kuripparithal
9	4	Pathupattu noolgal
10	2	Sirupanatrupatai 111-145, 235-261
11	2	Mullai pattu 26-79
12	2	Madurai kanchi 238-270
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhithiran - pathirikaigalukku seithi varaithal, Surukki varaithal, Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Narration Welcoming the Gathering Introducing a Guest to the Audience
2	1	Thanking the Gathering and Organizers of an Event One Act Play: Refund - Fritz Kazinthy Publicity Literature
3	2	Quit India - Mahatma Gandhi Tryst with Destiny - Jawaharlal Nehru Giving One's Opinion on Current National/ Social Issues
4	2	One - Act Play : The Bear - Anton Chekhov Spotting Errors Gettysburg Address - Abraham Lincoln
5	3	I Have a Dream - Martin Luther King Preparing News Items of Local Events and Speaking about them Sample News Items
6	3	One Act Play : The Hour of Truth : Percival Wide E Mail Writing
8	4	Inaugural Address - John.F.Kennedy Prepared to Die - Nelson Mandela



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	Autobiography : Sorrows of Childhood - Charles Chaplin
10	4	Presentation Skills Resume Writing
11	5	Some Useful Expressions Speech Writing
12	5	Biography : Marie Curie - Colin Mitchell
13	5	Biography : Sarojini Naidu - Padmini Sengupta Minutes Writing
15	0	Revision
7	0	I CIA Exam
14	0	II CIA Exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. E. Arokiadoss</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Triphthongs 1. Making request and responding to request 2. Thanking someone and responding to thanks
2	1	Prose: How to be a Doctor-Stephen Leacock 1. Precis writing 2. Non-Finite verbs 3. Strong and weak verbs 4. The Auxiliaries
3	2	Strong and weak forms in Transcription 1. Inviting, Accepting and Refusing an invitation 2. Apologising and Responding to an apology
4	2	Poem: Auguries of innocence-William Blake 1. Note -making 2. Use of wrong preposition 3. Unnecessary use of Articles
5	3	I listening: 1. Homonyms and similar words 2. Tele-conferences II speaking: 1. Handling customers or clients
6	3	II speaking: 2. Receiving visitors III Reading: 1. Drama: Henry IV (part I)-Play Out A play-William Shakespeare 2. Novel: The Count of Monte Cristo- Alexandre Dumas(chapter 21-30) IV Writing: The use of graphics
7	3	I-CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	I listening: Homophones II speaking: 1.Booking hotel accommodation 2.Making small talk and telling stories
9	4	III Reading: 1.Drama: As you like it-patterns of love William Shakespeare 2.Novel: the count of Monte Cristo-Alexandre Dumas(chapter 31-40) IV writing: Negotiations
10	5	I Listening: Group Discussion
11	5	II speaking: 1.Making Appointments 2. Cancelling and Rescheduling Appointments
12	5	II speaking: 1.Making Appointments 2. Cancelling and Rescheduling Appointments
13	5	III Reading: 1.Drama: Hamlet-churchyard-William Shakespeare 2.Novel: The count of Monte Cristo-Alexandre Dumas (chapter 41-49) IV writing: Writing Review of books
15	5	IV writing: Writing Review of books
14	5	II-CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	4
Subject	19CH407 : ORGANIC CHEMISTRY - II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Nucleophiles – Nucleophilicity. 1.2 Aliphatic nucleophilic substitution – Mechanisms of SN1, SN2, and SNi. Energy Profile diagrams –
2	1	Effects of nature of substrates, solvent, nucleophile, and leaving groups.
3	1	Leaving ability of the leaving groups. Basicity and Nucleophilicity – a comparison.
4	1	1.3 Substitution Vs elimination – with examples.
5	1	1.4 Stereochemistry of Substitution reactions – a brief introduction.
6	2	2.1 Aromaticity – Huckel's theory of aromaticity and its applications to Benzene and polynuclear hydrocarbons like naphthalene.
7	2	Resonance and delocalization in benzene. Examples of aromatic, anti-aromatic and non-aromatic compounds. Problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	2.2 Aromatic electrophilic substitution. Mechanisms of Nitration, halogenation, Sulfonation. Friedel – Crafts alkylation and acylation.
9	2	Substituent effects in Aromatic electrophilic substitution. Reactivity and orientation. Ortho-para ratio. Problems. 2.3 Synthesis of simple substituted benzenes using the above reactions
10	2	2.4 Aromatic nucleophilic substitutions. The addition-elimination mechanism AdE2. The elimination-addition mechanism - Benzyne mechanism.
11	4	4.1 Nomenclature and classification 4.2 Preparation of aldehydes and ketones: Rosenmund and Gattermann -Koch reactions.
12	4	4.3 Reactivity of carbonyl groups, the acidity of alpha hydrogen.
13	4	4.4 Reactions: Mechanism of enolization reactions, nucleophilic addition, oxidation and reduction reactions, addition reactions with Grignard reagents, cyanide and bisulphate. Preparation of derivatives of ammonia and alcohols.
14	4	4.5 Mechanism of aldol, Cannizaro perkin, knoevenagel reactions. Benzoin condensation, Claisen reactions.
15	4	4.6 Mechanisms of reductions with NaBH <sub>4</sub> , LiAlH <sub>4</sub> , Wolff-Kishner, Clemmensen, and MPV reductions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ADAIKALARAJ C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>CHP404 : PHYSICAL METHODS - PRACTICAL IV</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Determination of melting point - I
2	1	Determination of melting point - II
3	1	Determination of melting point - III
4	1	Determination of boiling point - I
5	1	Determination of boiling point - II
6	1	Determination of boiling point - III
7	2	Crystallization and decolorization of impure naphthalene from ethanol -I



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2. Crystallization and decolorization of impure naphthalene from ethanol -II
9	3	To determine the percentage composition of a given binary mixture by surface tension method - I
10	3	To determine the percentage composition of a given binary mixture by surface tension method - II
11	3	To determine the percentage composition of a given binary mixture by surface tension method - III
12	3	To determine the viscosity of amyl alcohol in water at different concentrations - I
13	3	To determine the viscosity of amyl alcohol in water at different concentrations - II
14	3	To determine the viscosity of amyl alcohol in water at different concentrations - III
15	3	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SHOBA D DR	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	APH301T : ALLIED PHYSICS	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bending of beams: Non-uniform bending-Torsion of a wire-Torsional pendulum.
2	1	Sound: Transverse vibrations of a stretched string- expression for the velocity of transverse wave – laws of transverse vibrations-
3	1	A.C frequency measurement using sonometer- velocity of sound in a gas-Ultrasonics-production and uses
4	2	Capacitor- energy of charged capacitors- loss of energy due to sharing of charges DC circuits
5	2	DC circuits – growth and decay of charge containing resistance and capacitor (RC) circuit & inductance and resistance (LR) circuit -
6	2	potentiometer-measurement of internal resistance of a cell and unknown resistances – Moment, Tan C and pole strength of a magnet
7	3	Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate-Determination of a diameter of a thin wire by air wedge

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	spherical aberration – minimizing spherical aberration by using two thin lenses in contact-chromatic aberration- an achromatic combination of two thin lenses in contact-
9	3	optical activity-specific rotatory power-polarimeter
10	4	Elements of relativity and Postulates of theory of relativity- Lorentz transformation equations- derivation Addition of velocities-
11	4	twin paradox Minkowski's four-dimensional space.Quantum mechanics: De Broglie's waves - The uncertainty principle
12	4	postulates of wave mechanics- - Schrödinger's equation (Time-dependent one dimensional) - application to a particle in a box.
13	5	FET-characteristics-parameters-FET as amplifier-
14	5	IC-SSI LSI MSI-VLSI IC fabrication-Diode
15	5	flip flops-RS flip flops-D flip flops-JK flip flops .

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SHOBA D DR	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	APHP301 : ALLIED PHYSICS PRACTICAL	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	least count basic for screw gauge, vernier caliper, traveling microscope, spectrometer
2	1	Determination of Young's modulus –non-uniform bending -Pin and microscope
3	1	Determination of Rigidity modulus- Torsional pendulum (without masses).
4	1	Determination of Rigidity modulus – Static torsion
5	1	Sonometer – A.C frequency - Steel wire.
6	1	Sonometer – A.C frequency -Brass wire.
7	1	Sonometer –frequency of tuning fork.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	1	Figure of merit of a galvanometer (Table galvanometer).
10	1	Construction of AND, OR NOT gates using diodes and transistors.
11	1	revision lab
12	1	revision lab
13	1	revision lab
14	1	model exam 1
15	1	model exam 2
8	1	Spectrometer – Grating-Minimum deviation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY SHAKKINA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>NCSWD401 : FUNDAMENTALS OF WEB DESIGNING</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic internet terms Internet Based Services How does the Internet work
2	1	Advantages of the Internet Server Types
3	1	Tools required for developing a website Web pages- Static, Dynamic web pages.
4	2	WWW Web Browsers Browser Types
5	2	Uniform Resource Locator URL search engines-
6	2	Protocols: Simple Mail Transfer Protocol, Hyper Text Transfer Protocol Emails.
7	3	Introduction to HTML Structure of HTML



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating an HTML document Heading Paragraphs
9	3	Line Breaks HTML Tags Advantages & disadvantages of HTML.
10	4	Basic web design principles Planning process
11	4	Types of website structure Five Golden rules of web designing
12	4	Designing navigation bar Home Page Layout.
13	5	Introduction to E-Commerce Scope of E-Commerce
14	5	Types of E-Commerce E-Commerce Framework
15	5	Technologies of E-Commerce Applications of E-Commerce Limitations of E-Commerce

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>NCSWD401 : FUNDAMENTALS OF WEB DESIGNING</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	WWW-Web Browsers - Browser Types- Uniform Resource Locator URL
2	2	search engines
3	2	Protocols: Simple Mail Transfer Protocol class test
4	2	Hyper Text Transfer Protocol- Emails.
5	3	Introduction to HTML - Structure of HTML– Creating an HTML document –
6	3	Heading - Paragraphs - Line Breaks
7	3	HTML Tags class test

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Advantages & disadvantages of HTML.
9	4	Basic web design principles- Planning process
10	4	Types of website structure Five Golden rules of web designing
11	4	Designing navigation bar - Home Page Layout.
12	5	Introduction to E-Commerce – Scope of E-Commerce –Types of E-Commerce
13	5	E-Commerce Framework Technologies of E-Commerce
14	5	Applications of E-Commerce Limitations of E-Commerce
15	5	revision & class test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	5
Subject	19CH509 : ORGANIC CHEMISTRY - III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	2.1 Conformational analysis of cyclohexane, mono and disubstituted cyclohexanes – Factors affecting stability
2	2	2.2 Optical isomerism, optical activity, optical and specific rotations, conditions for optical activity. Asymmetric center, chirality, achiral molecules, (+) and (-) and D and L notations,
3	2	Elements of symmetry, racemization, methods of racemization, methods of resolution, asymmetric synthesis (partial and absolute synthesis), Walden inversion.
4	2	2.3 Projection formula: Fischer, flying wedge, sawhorse and Newmann projection formulae and their interconversions- notations of optical isomers- Cahn- Ingold-Prelog rules, R and S notations for optical isomers with one or two asymmetric carbon atoms, ery.
5	2	2.4 Optical activity in compounds not containing asymmetric carbon atoms namely biphenyls, allenes, and spiranes.
6	1	Unit I Nitrogen containing compounds 1.1 Nomenclature and classification, Preparation 1.2 Nitrocompounds: aliphatic and aromatic nitro compounds, classification, general properties.
7	1	1.3 Reactions: reduction by a chemical and electrolytic method 1.4 Di- and tri-substitution of aromatic nitro compounds: synthesis of o-, m-, p-dinitrobenzenes and trinitrobenzene.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	1.5 Aromatic Amines. Preparation of primary, secondary and tertiary amines.
9	1	1.6 Reactions: basicity of amines, the effect of substituents on basicity of aromatic amines.
10	1	1.7 Diazonium salts: Preparation, diazotization reaction, Sandmeyer, and coupling reactions.
11	5	Carbohydrates: Structural elucidation of glucose and fructose – pyranose and furanose forms
12	5	determination of ring size – Haworth projection formula – epimerization
13	5	reactions of glucose and fructose – Osazone formation, mutarotation, and its mechanism – chain lengthening and chain shortening of aldoses
14	5	– interconversion of aldoses and ketoses.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	19CH614 : ORGANIC CHEMISTRY - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	UNIT - IV: PERICYCLIC AND PHOTOCHEMICAL REACTIONS 4.1 Electrocyclic reactions of 4 and 6 pi - electron systems
2	4	4.2 Cycloaddition reactions – 2 + 2 and 4+2 additions
3	4	4.3 Sigmatropic rearrangements - 1,3; 1,5 and 3,3 sigmatropic rearrangements. Claisen and Cope rearrangements
4	4	4.3 Sigmatropic rearrangements - 1,3; 1,5 and 3,3 sigmatropic rearrangements. Claisen and Cope rearrangements
5	4	4.4 Photochemical reactions of carbonyl compounds: Norrish type – I and II reactions
6	5	UNIT - V: HETEROCYCLIC COMPOUNDS AND TERPENOIDS 5.1 Preparation, properties, and uses of furan, pyrrole, thiophene, pyridine, and piperidine. Comparative study of basicity of pyrrole, pyridine, and piperidine with amines.
7	5	5.1 Preparation, properties, and uses of furan, pyrrole, thiophene, pyridine, and piperidine. Comparative study of basicity of pyrrole, pyridine, and piperidine with amines.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.2 Six-membered rings: synthesis and reactions of quinoline, isoquinoline, and indole. Skraup synthesis, Bischler – Napieralski and Fischer- Indole Synthesis.
9	5	5.3 Terpenoids: Classification, isoprene rule, isolation, the structures of geraniol, citral, menthol, a-pinene, and camphor. Structural elucidation of menthol.
10	5	5.4 Alkaloids: definition, occurrence, extraction of alkaloids from plants, structural elucidation of coniine, piperine.
11	3	UNIT - III: OXIDATION AND REDUCTION 3.1 Oxidation with Cr(VI) and Mn(VII) reagents, Oxidation by peracids and DMSO with oxalyl chloride
12	3	3.1 Oxidation with Cr(VI) and Mn(VII) reagents, Oxidation by peracids and DMSO with oxalyl chloride
13	3	3.2 Catalytic hydrogenation and dehydrogenation
14	3	3.3 Reductions with LAH, NaBH <sub>4</sub> , and DIBAL. Birch reduction
15	3	3.4 Hydroboration and oxidation of alkenes and alkynes.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>19ECH513 : CHEMISTRY OF INDUSTRIAL PRODUCTS</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Saponification of oils and fats – Manufacture of soaps – Formulation of Toilet soaps–Different ingredients used–Their functions–Medicated soaps. Herbal soaps–Mechanism of action of soap–Soft soaps–Shaving soaps and creams–ISI specifica...
2	1	Anionic detergents: Manufacturere of LAB (Linear Alkyl Benzene) – Sulphonation of LAB – preparation of acid slurry– Different ingredients in the formulation of detergent powders and soaps–Liquid detergents–Foam boosters–AOS (alpha-olefin sulph...
3	1	Cationic detergents: Examples– Manufacture and applications. Non-ionic detergents: Examples–Manufacture of ethylene oxide condensate.
4	1	Mechanism of action of detergents: Comparison of soaps and detergents– Biodegradation – environmental effects – ISI specifications and limits.
5	2	Manufacture of Sodium lauryl sulphate and Sodium Laureth sulphate: Ingredients–Functions–Different kinds of shampoos – anti-dandruff–anti-lice–herbal and baby shampoos.
6	2	Hair dye: Manufacture of conditioners – Coco betaines or coco diethanolamides – ISI specifications – Testing procedures and limits.
7	2	Introduction: Methods of dying – Classifications of dyes – Methods of application of dyes – Fluorescent brightening agent – non-textile uses of dyes



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Face and skin powders: Ingredients – functions – Different types – Snows and face creams – A chemical ingredients used – Antiperspirants.
9	3	Sunscreen preparation: UV absorbers – Skin bleaching agents – Depilatories – Turmeric and neem preparations – Vitamin oil.
10	3	Nail polishes: Nail polish preparation – Nail polish removers – Article removers – Lipsticks – roughs, eyebrow pencils – Ingredients and functions – hazards – ISI specifications.
11	4	Introduction: Manufacture of leather–Preparation of hides for tanning– Vegetable–chrome and oil tanning–tannery effluents–pollution control.
12	4	Introduction– manufacture of cane sugar– recovery of sugar from molasses–manufacture of sucrose from beetroot–testing and estimation of sugar.
13	4	Classification and examples for insecticides, fungicides, and herbicides –fluorine compounds, boron compounds, arsenic compounds, mercuric compounds, pyridine compounds – ill effects of the use of chemical fertilizers and insecticides.
14	5	Mechanism of lubrication: Classification of lubricants– lubricating oils– greases or semi-solid lubricants– solid lubricants and synthetic lubricants.
15	5	Explosives: Classification of explosives, primary explosives– high explosive and low explosive. Blasting fuses–manufacture of important explosives–propellants and rocket fuels– classification of propellants and uses.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>ECH617T : MEDICINAL CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Development of new drugs– procedures followed in drug design–concepts of prodrugs and soft drugs–structure-activity relationship (SAR).
2	1	Theories of drug activity: Occupancy theory–rate theory–induced fit theory–Quantitative structure-activity relationship.
3	1	Concepts of drug receptors: Elementary treatment of drug-receptor interactions.
4	1	Introductions to pharmacokinetics and pharmacodynamics
5	2	Antibiotics Cell wall biosynthesis– inhibitors
6	2	$\beta$ -lactum rings–antibiotics inhibiting protein synthesis.
7	2	SAR of penicillin G – penicillin V– chloramphenicol– ciprofloxacin– tetracycline – streptomycin

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Introduction– cancer chemotherapy– special problems–the role of alkylating agents and antimetabolites in the treatment of cancer.
9	3	SAR of uracil– mustards– 6-mercaptopurine – Hormone and natural products.
10	3	Cardiovascular Drugs . Introduction – cardiovascular diseases– central intervention of cardiovascular output
11	3	Direct acting arteriolar dilators.
12	4	Introduction and general mode of action. SAR of sulphonamides
13	4	nalidixic acid –amino salicylic acid – isoniazid-chloroquine.
14	5	. Introduction – neurotransmitters– CNS depressants– a general anaesthetic– mode of action of hypnotics– sedatives– anti-anxiety drugs– benzodiazepines– buspirone– neurochemistry of mental diseases.
15	5	Antipsychotic drugs– the neuroleptics– antidepressants– butyrophenones– serendipity and drug development– stereochemical aspects of psychotropic drugs.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY SANDOSH T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Thermodynamics- Introduction
2	1	Thermodynamics- Terminologies.
3	1	the conservation of energy-systems and surroundings.
4	1	work and heat- explanation and problems.
5	1	the measurement of work- the measurement of heat.
6	1	Internal energy –enthalpy- the temperature variation of the enthalpy
7	2	Thermo chemistry- Introduction.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	physical change-the enthalpy of phase transition.
9	2	atomic and molecular change.
10	5	Phase equilibria-thermodynamics of transition
11	5	Condition of stability- Explanations.
12	5	variation of Gibbs energy with pressure- variation of Gibbs energy with temperature.
13	5	Phase diagrams –phase boundaries-location of phase boundaries-characteristic points
14	5	Phase rule –phase diagram for typical materials.
15	5	REVISIONS.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANTONY SANDOSH T	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	CH616T : THERMODYNAMICS OF IDEAL AND NON IDEAL SOLUTIONS	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The properties of the mixture- thermodynamic description of mixture.
2	1	Measures of concentration –partial molar properties.
3	1	Spontaneous mixing-ideal solutions- Ideal –dilute Solutions.
4	1	Real solutions –Colligative properties-modification of boiling and freezing points- Osmosis.
5	1	Phase diagrams of the mixture- a mixture of volatile liquids- liquid – liquid phase diagrams.
6	1	Liquid-Solid-phase diagrams-ultra purity and controlled impurity.
7	3	Consequences of equilibrium-proton transfer equilibrium.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bronsted-Lowry theory –protonation and deprotonation.
9	3	Amphiprotic systems.
10	4	Electrochemistry –migration of ions- conductivity-specific, equivalent and molar conductance.
11	4	Ion mobility-Transport number and its determination (Hittorf's and moving boundary method.
12	4	Electrochemical cells.
13	4	Half reactions and electrodes –reactions at electrodes.
14	4	Fuel cells (H <sub>2</sub> -O <sub>2</sub> and hydrocarbon-O <sub>2</sub> ).
15	4	Batteries-Primary and Secondary batteries.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTINA B</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>CHP605 : PHYSICAL CHEMISTRY PRACTICAL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Determine the transition temperature of the given salt hydrate by thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure ph...
2	1	1. Determine the transition temperature of the given salt hydrate by thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure ph...
4	1	1. Determine the transition temperature of the given salt hydrate by thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure ph...
6	1	1. Determine the transition temperature of the given salt hydrate by thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure ph...
7	1	1. Determine the transition temperature of the given salt hydrate by thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure ph...
8	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...
10	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...



Cycle	Unit	Topics to be covered / Activity to be carried out
11	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...
12	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...
13	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...
14	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...
15	1	Model Examination
3	1	thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure phenol and 1% solution of NaCl .
5	1	thermometric method. 2. Determine the molecular weight of the given solute by Rast method. 3. Find out the concentration of the given NaCl solution. You are provided with pure phenol and 1% solution of NaCl .
9	1	4. Determine the critical solution temperature of phenol- Water system 5. Determine the rate constant of acid catalysed hydrolysis of the given ester at room temperature. 6. Determine the rate constant of acid catalysed iodination of acetone ...

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PAUL AROKIADOSS</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Chemical change – standard enthalpy changes
2	2	the combination of reaction enthalpies-standard Enthalpies of formation
3	2	a variation of reaction enthalpy with temperature.
4	3	II law of thermodynamics-entropy –The Carnot Cycle – Carnot theorems
5	3	Entropy and Carnot cycle – Entropy a measure of randomness and probability.
6	3	The direction of spontaneous change
7	3	entropy and II law-entropy changes for typical processes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	entropy changes in the surroundings.
9	4	III law of thermodynamics- Nernst heat theorem
10	4	Gibbs-Duhem equation-effect of temperature and pressure on chemical potential
11	4	chemical potential in systems of ideal gases- Duhem-Margules equation.
12	4	Absolute entropies – standard reaction entropy.
13	4	4.2 The spontaneity of Chemical reactions
14	4	Gibbs free energy – focusing on the system properties of the Gibbs energy.
15	4	Gibbs free energy – focusing on the system properties of the Gibbs energy. Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>ECH512 : ANALYTICAL TECHNIQUES</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to instrumental methods of chemical analysis.
2	1	Microwave spectroscopy introduction, Introduction – instrumentation – the source and monochromator, sample and sample space – detector – spectrum analyzer – working.
3	1	IR-spectroscopy Principle and vibrations.
4	1	source - monochromators – sample cells & sampling substances – a sampling of solids – detector – bolometers – thermocouples – thermistors – Golay cell – photoconductivity cell – single beam & double beam spectrometers types of vibrations
5	2	Raman spectroscopy principle Introduction – instrumentation – the source of light – filters – sample holder – spectrograph
6	2	UV spectroscopy: Introduction, instrumentation – radiation source – monochromators – detectors – recording system – sample cells – power supply, Types of Electronic transitions in UV spectroscopy
7	2	NMR spectroscopy: introduction, NMR instrumentation – sample holder – magnet – sweep generator – radiofrequency generator – radio frequency receiver.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	NQR spectroscopy: Introduction Instrumentation of NQR Spectroscopy
9	3	ESR spectroscopy: Introduction – instrumentation – source – circulator – sample cavity – magnet system – crystal detectors
10	3	Mass spectroscopy: Introduction – instrumentation – inlet system – ion source – electrostatic accelerating system – ion collector – vacuum system
11	4	Mossbauer spectroscopy: Introduction – instrumentation
12	4	Atomic absorption spectroscopy: Introduction – instrumentation – radiation source – chopper – production of the atomic vapour – nebulization of the liquid sample – monochromators – detectors – amplifiers
13	5	Flame photometry: Introduction – instrumentation – burner – mirrors – monochromators – filters - detectors
14	5	Nephelometry and Turbidimetry: Introduction – instrumentation – sources – detectors – cells – turbidimeters - nephelometers
15	5	pH meter: Introduction – instrumentation – potentiometric type – direct reading type Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimeters

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>ECH618 : POLYMER CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of polymer and types of polymer
2	1	Classifications of polymer based on structure
3	1	Classifications of polymer based on mechanism
4	1	Homogeneous and heterogeneous polymer
5	2	Crystalline polymer and morphology
6	2	Amorphous and crystalline polymer
7	2	Thermoplastics and thermosetting plastics

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Tg and Tm
9	3	Mouldings of polymer
10	3	Die causting and film causting
11	3	Compression and thermo foaming
12	3	Injection moulding and elastomers
13	4	Preparation method of PE, PVC,Baseline,Firetrading polymers,
14	4	Electrical conducting polymer
15	5	Bio medical polymer,and revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	IMMANUEL S	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	CHP607 : ANALYTICAL CHEMISTRY PRACTICAL - I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Analytical practicals introduction
2	1	Strong acid Vs strong base
3	2	Strong acid Vs weak acid
4	2	Calorimetry demo
5	2	Polarimetre discussions
6	3	Pka demo class
7	3	Pka experiment



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pka calculations discussions
9	4	FAS demo
10	4	FAS experiment
11	4	Calculation discussions of FAS
12	4	Strong acid and week acids revisions
13	5	Pka revision
14	5	Viva questions discussion
15	5	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>19CH509 : ORGANIC CHEMISTRY - III</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Carbonyl polarization – reactivity the acidity of alpha hydrogen-malonic
2	3	the acidity of alpha hydrogen- acetoacetic and cyanoacetic esters
3	3	characteristic reactions of active methylene group – synthetic uses of malonic, acetoacetic and cyanoacetic esters
4	3	Diazomethane and diazoacetic ester: Preparation, structure and synthetic applications
5	3	Tautomerism: Definition- keto-enol tautomerism
6	3	identification, acid and base-catalyzed mechanisms, evidence – amido – imidol and nitro- acinitro tautomerisms
7	4	Classification as anionotropic, cationotropic, free radical, inter and intramolecular rearrangement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Pinacol-pinacolone rearrangement –mechanism, evidence for carbonium ion intermediate formation – migratory aptitude
9	4	Beckmann, Hoffmann, Curtius, Lossen Smith rearrangements
10	4	Benzilic acid and Baeyer Villiger rearrangements
11	4	Fries rearrangement
12	5	Amino acids: Classification and structure of amino acids
13	5	Gabriel phthalimide synthesis – Strecker synthesis
14	5	Erlenmeyer synthesis, peptide-Merrifield synthesis – End group analysis
15	5	Zwitterion, isoelectric point

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	DAVID AMALRAJ S Dr	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	19CH614 : ORGANIC CHEMISTRY - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles – Type of transitions
2	1	Woodward – Fieser rules as applied to conjugated dienes
3	1	Woodward – Fieser rules as applied to $\alpha$ , $\beta$ – unsaturated ketones
4	1	Woodward – Fieser rules as applied to conjugated dienes and $\alpha$ , $\beta$ – unsaturated ketones problems
5	1	Characteristic IR absorption frequencies of important functional groups
6	1	fingerprint region and functional group region
7	1	The effect of intermolecular and intramolecular hydrogen bonding in IR

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Problems based on IR and UV spectra
9	2	Principles of nuclear magnetic resonance – chemical shift
10	2	shielding and deshielding of protons
11	2	spin-spin splitting of neighbouring protons
12	2	Coupling constants and their application. Applications of $^1\text{H}$ NMR in the structural determination of simple organic compounds
13	2	Mass spectroscopy: Basic principles, molecular ion peak, base peak, isotopic peak
14	2	Fragmentation patterns in hydrocarbons, alcohols, aldehydes, ketones, acids, halobenzenes.
15	2	Simple Combined problems using UV, IR, NMR, Mass spectra

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>CHP606 : GRAVIMETRIC ESTIMATION PRACTICAL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Introduction -gravimetric methods
2	1	Demo-1 gravimetric methods
3	1	Demo-2 gravimetric methods
4	1	Estimation of Sulphate as barium sulphate
5	1	Estimation of Barium as barium sulphate
6	1	Estimation of Barium as barium chromate
7	1	Estimation of Lead as lead chromate

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Estimation of Calcium as calcium oxalate monohydrate
9	1	Estimation of Sulphate as barium sulphate
10	1	Estimation of Barium as barium chromate
11	1	Estimation of Barium as barium sulphate
12	1	Estimation of Calcium as calcium oxalate monohydrate
13	1	Estimation of Lead as lead chromate
14	1	Revision of all experiment
15	1	Model Exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>6</b>
Subject	<b>CHP605 : PHYSICAL CHEMISTRY PRACTICAL - I</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Determination of the transition temperature of the given salt hydrate: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ , $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$ , $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$ , $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$
2	1	Determination of the transition temperature of the given salt hydrate: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ , $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$ , $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$ , $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$
3	1	Determination of the transition temperature of the given salt hydrate: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ , $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$ , $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$ , $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$
4	1	Determination of the transition temperature of the given salt hydrate: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ , $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$ , $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$ , $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$
5	1	Phenol – water system – CST
6	1	Phenol – water system – CST
7	1	Effect of impurity – 2% NaCl or succinic acid solutions on the phenol-water system – determination of the concentration of the given solution.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Effect of impurity – 2% NaCl or succinic acid solutions on the phenol-water system – determination of the concentration of the given solution.
9	1	Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.
10	1	Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.
11	1	Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.
12	1	Acid-catalyzed the hydrolysis of an ester (methyl or ethyl acetate).
13	1	The distribution coefficient of Iodine between water and CCl <sub>4</sub> .
14	1	Model Practical-I
15	1	Model Practical-II

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHAKIARAJ D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>5</b>
Subject	<b>19CH510 : INORGANIC CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1.1 Chemistry of d-block elements - Characteristics of d-block elements - occurrence - oxidation states, magnetic properties, and colour.
2	1	1.2 Metallurgical processes: Methods involved in ore concentration – magnetic separation, hydraulic washing, leaching, froth floatation process – conversion of concentrated ore in to metallic oxide – roasting, calcination, smelting.
3	1	Reduction of metal oxide – chemical method, reduction by other metals, electrolytic reduction – refining – bessemerisation, cupellation, electrolytic refining, Van Arkel method, vapour phase refining. 1.3 Metallurgy of Ti, V, W, Cr.
4	2	2.1 Coordination Chemistry: Definition of terms used – the difference between double salts and coordination complexes - Nomenclature of Co-ordination complexes - Classification of ligands.
5	2	2.2 Isomerism in complexes – ionization isomerism, hydrate isomerism, linkage isomerism, ligand isomerism, and coordination isomerism and polymerization isomerism - Geometrical and optical isomerism in tetra and hexacoordinated complexes – fac & mer ...
6	3	3.1 Werner's theory - Sidgwick's theory - EAN rule, - Valence bond theory – hybridization - geometry and magnetic properties - the failure of VBT.
7	3	3.2 Crystal field theory - Splitting of d-orbitals in octahedral, tetrahedral and square planar complexes - crystal field stabilization energy - calculation of CFSE in octahedral complexes - low spin and high spin complexes

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Explanation of magnetic properties and colour of complexes using CFT.
9	4	4.1 consequences of CFSE on atomic radii, lattice energy, the heat of hydration.
10	4	factors affecting CFSE – oxidation state, spectrochemical series, principal quantum number, geometry
11	4	4.2 Comparison of VBT and CFT. Trans effect and Jahn-Teller effect and its consequences
12	5	5.1 X-ray diffraction – Bragg's equation - the principle of X-ray diffraction - comparison of X-ray, electron and neutron diffraction.
13	5	5.2 Radius ratio and coordination number of Crystal structure – NaCl, Rutile, Wurtzite, Zincblende, and CaF <sub>2</sub> .
14	5	Crystal defects – Schottky, Frenkel, types of metal excess and metal deficiency defects, and their consequences. Metallic bond, Metallic properties.
15	5	Band theory of metals, semiconductors - n and p-type semiconductors - Superconductors.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	6
Subject	CHP607 : ANALYTICAL CHEMISTRY PRACTICAL - I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Conductometry and Potentiometry method
2	1	Demonstration of Conductometry and Potentiometry method
3	1	Determination of strength of strong acid (HCl Vs NaOH).
4	1	Determination of strength of strong acid (HCl Vs NaOH).
5	1	Verification of Onsager's equation.
6	1	Determination of strength of a mixture of acids (HCl + CH <sub>3</sub> COOH Vs NaOH).
7	1	Determination of single electrode potential.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Determination of pK <sub>a</sub> of weak acid using std. NaOH solution.
9	1	Determination of pK <sub>a</sub> of weak acid using std. NaOH solution.
10	1	Determination of unknown concentration using a photoelectric colorimeter.
11	1	Determination of unknown concentration using a photoelectric colorimeter.
12	1	Determination of single electrode potential.
13	1	Verification of Onsager's equation.
14	1	Revision of all the Practical
15	1	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs based on C++
2	1	C++ programs based on command line arguments
3	1	C++ programs based on operators
4	2	C++ programs based on data types- C++ program to print Fibonacci series without using recursion and using recursion- C++ program to check prime number.
5	2	C++ program to print factorial of a number-C++ program to check Armstrong number.
6	2	C++ Program Using Call by value and call by reference in C++
7	3	C++ Program to Implementing class and Objects.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	C++ Program to Implementing Inline function
9	3	C++ Programs based on operators and Control Statements
10	4	C++ Programs based on Implementing Inheritance.
11	4	C++ program for implementing Single Level Inheritance Methods
12	4	C++ program for implementing for Multi Level Inheritance Example
13	5	C++ Programs Based on File Operations
14	5	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.
15	5	Conversion of infix to postfix using stacks operations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Computer Science	Semester	1
Subject	LT101B : TAMIL - I	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prarthanai) Pavalalararu Parunchiyhiranar - Kanicharu
4	1	Kanadasan - Thavaru - Manipu
5	5	Ilakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val Ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendriu Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathai - Orunal Kazinthzthu
15	4	Sirukathai - kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Computer Science	Semester	2
Subject	21LT02 : TAMIL - II	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiyavaralaru - Pallaverkala Ilakiyangal
2	1	Valalar - Thiruvarulkodai Thiruganasambanthar - Muthal Thirumurai - Thirualavai
3	1	Periyazvar - Thirupalandu Namazvar - Patham Thirumaurai
4	1	Vanakalangiypulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Ilakiyavaralaru - Urainadai Thortam Valarchi
6	3	Pavanar Padaipugal - Pavanar Nokil Perumakkal
7	3	Pavanar Padaipugal - Pavanar Nokil Perumakkal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pavanar Padaipugal - Pavanar Nokil Perumakkal
9	4	Ilakiyavaralaru - Nayakar Kalam
10	2	Palapatadai Chokanathapulaver - Alager Killaividu Thoothu
11	2	Pagazhi Koother - Thiruchendur Murugan Pillai Thamil Kumaragurubarar - Madurai Meenatchiyammai Irataimanimalai
12	4	Ilakiyavaralaru - SidharIlakiyam
13	2	Arunagirinather - Thirupugaz Patinathar - Thiruthillai
14	2	Patinathar - Thiruthillai Sivavakiyar - padal 9, 10,11
15	5	Ilakanam -Yapu , Ani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kala ilakkiyam
2	1	Vallalar Thiruganasambanthar
3	1	Periyazhvar Nammazhvar
4	1	Vanna kazhanjiya pulavar Vethanayagam Pillai
5	4	Urai nadai thottramum valarchiyum
6	3	Pavanar padaippugal 1-4
7	3	Pavanar padaippugal 5-10

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pavanar padaippugal 11-14
9	4	Nayakker kala ilakkiyam
10	2	Azhar killai vidu thoothu
11	2	Pahazhikkoothar Kumarakurubarar
12	4	Sridhar ilakkiyam
13	2	Arunahiri nathar Pattinathar
14	2	Sivavakkiyar
15	5	Yappu Vaippani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS204S : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Data structure Definition of a Data structure Primitive and Composite
2	1	Data types Arrays
3	1	Operations on Arrays Order Lists.
4	2	Stacks and Queues: Stacks Operation
5	2	Application of Stack Infix to Postfix Conversion Queues
6	2	Operations on Queues Queue Applications Circular Queue
7	3	Linked List Singly Linked List

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Representation of a Polynomial Polynomial addition
9	3	Doubly Linked List.
10	4	Trees Binary trees Representation
11	4	Conversion of Forest to Binary tree
12	4	Tree Traversals Inorder Postorder Preorder
13	5	Graphs Definition Graph Representation
14	5	Types of Graphs
15	5	Shortest Path (Djikistras Algorithm).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CS101B : PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Syllabus introduction C language introduction Evolution of c language Basic Structure of c program Character set
2	1	Keywords Identifiers Data types Variables Constants
3	1	Operators Statements Expressions Library Functions
4	2	Input and output functions Simple programs
5	2	Simple if If else statement Else if statement Nested statements Switch statement
6	2	for loop while loop do while loop goto statement break and continue statements
7	3	array types of array

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	functions user defined function function prototypes
9	3	passing array to a function programs using functions
12	4	difference between structure and union difference between array and structure
13	5	pointers
14	5	passing pointers to a functions file introduction operations on file
15	5	file functions for opening and closing file input and output functions example program
10	4	structure structure creation accessing structure elements
11	4	union union creation accessing union elements

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CSP101B : PRACTICAL - PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic programs
2	1	Program using different types of operator
3	1	Programs using library functions
4	2	Programs using input and output functions
5	2	Programs using branching statements
6	2	programs using looping structures
7	3	programs using arrays

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	programs using user defined functions
9	3	programs for passing array to a function
10	4	programs using structure
11	4	programs using union
12	5	programs using pointers
13	5	programs for passing pointer to a function
14	5	programs using file functions
15	5	programs to implement recursion

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS203S : PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to OOP's Advantages of OOP's Applications of OOP's
2	1	Key components of OOP's CPP introduction Basic structure of CPP program
3	1	input output stream classes Simple programs in CPP
4	2	Unformatted input and output statements Tokens
5	2	Control structures Branching and looping Arrays and its types
6	2	Function Function prototype Inline function
7	3	class object Simple program using class and object

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Constructor Default Constructor Parameterized constructor
9	3	Copy constructor Multiple constructor Destructor
10	4	Inheritance Access specifiers Single inheritance Multiple inheritance
11	4	Multilevel inheritance Hierarchical inheritance Hybrid inheritance
12	4	Virtual Function Virtual base class Friend function
14	5	Output operation on files End of file detection
15	5	File operations Command line arguments
13	5	Introduction to file File pointer creation File input operations

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	1	CPP programs using class and objects
3	1	CPP program using Inline Functions
4	2	CPP program using friend function
5	2	CPP program using default and parameterized constructors
6	2	CPP program using copy and multiple constructors CPP program using destructors
7	3	Operator overloading CPP program using single inheritance



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	CPP program using multiple inheritance
9	3	CPP program using multilevel inheritance
10	4	CPP program using hierarchical inheritance
11	4	CPP program using hybrid inheritance
12	4	CPP program to perform push and pop operations of stack using array
13	5	CPP program to perform insertion and deletion operations of queue using array
14	5	CPP program to perform infix to postfix conversion
15	5	CPP program to perform tree traversals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMA PRIYA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>AMCS22A : ALLIED MATHEMATICS - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Transportation problem Mathematical formulation
2	2	Initial basic feasible solution North West Corner rule
3	2	Least Cost entry method Vogel's approximation method
4	2	Test of optimality Modi's method
5	2	Optimal solution using VAM Unbalanced transportation problem
6	2	Optimal solution using VAM Degeneracy problem
7	2	Maximization problem

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Finite difference Operators
9	5	Missing terms
10	5	Newton's forward interpolation formula
11	5	Newton's backward interpolation formula
12	5	Lagrange's formula
13	5	Newton's forward interpolation formula Simple problems
14	5	Newton's backward interpolation formula Simple problems
15	5	Lagrange's formula Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	ILLAKKIYA VARALARU - IRUBATHAM NOOTTRANDU KAVIGHERGAL
2	1	BARATHIYARIN KANINILAM VENDUM BHARATHIDASSANIN NAATTIYAL NAATTUVOM
3	1	NAMAKAL VE RAMALINGAM PILLAIYIN THAMIZHAN ITHAYAM PAVALERERU PERUNCHITHRANARIN KANICHARU
4	1	KANNADASANIN THAVARU- MANNIPPU SURATHAVIN MELADAI KAVITHAI
5	5	ILLAKANAM - MUTHAL EZHUTHUKAL, SAARBEZHUTHUKKAL
6	5	VALOTTRU MIGUMIDAM VALOTTRU MIGAVIDAM
7	3	PUTHUKAVITHAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	AREVUMATHIYIN POOTHA NERUPPU MEERAVIN PILLAITHAMIZH
9	2	ERODU THAMIZHANBANIN VETTRE MUGAM VAIRAMUTHUVIN SUTHANTHIRAM
10	2	SIRPI- ABDULKALAMIN VEENAI
11	2	HAIKKO KAVITHAIGAL- AMUTHABHARATHIYIN KATTRIN KAIGAL, BOOBATHIRAJAVIN RAJANGAM, NANDAVANAM- SANTHIRASEGARAN, THURAVI
12	2	SENREYUK KAVITHAIGAL-
13	3	ILLAKKIYA VARALARU- SIRUKATHAI THOTTRAMUN VALARCHIYUM
14	4	SIRUKATHAI- KADAVULUM KANDASAMI PILLAIYUM ORUNAAL KAZHINTHATHU
15	4	KAALANUM KIZHAVIYUM AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIA ARULDOSS J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>21AMCS11 : ALLIED MATHEMATICS - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Symbolic logic - problems
2	1	Test of Validity of the Arguments (using truth table),-problems
3	1	Quantifiers ( Without truth table) , problems
4	2	Transformation of equations by increasing or decreasing roots by a constant ) .
5	2	Horners Method to find a root approximately. (without proof)
6	2	Newtons method to find a root approximately two decimals places(without proof
7	3	Eigen values and Eigen vectors problems

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cayley Hamiltons theorem [without proof] problems
9	3	Verification and computation of inverse matrix using cayley Hamilton theorem
10	4	Expansions of $\sin n \theta$ , $\cos n \theta$ , $\sin n \theta \cos n \theta$ , $\tan n \theta$ –
11	4	Expansions of $\sin \theta$ , $\cos \theta$ , $\tan \theta$ in terms of $\theta$ –
12	4	Hyperbolic and inverse hyperbolic functions – Logarithms of complex numbers.
13	5	n-th derivatives – Leibnitz theorem [without proof] and its applications
14	5	Jacobians Concepts of polar co-ordinates
15	5	Curvature and radius curvature in Cartesian and polar co-ordinates.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
7	3	I CIA EXAMINATIONS
1	1	Triphthongs Making Requests Thanking Responding to Someone How to be a Doctor
2	1	Precise Writing Non Finite verbs Strong and weak verbs The Auxiliaries
14	5	II CIA EXAMINATIONS
15	5	Revision
3	2	Transcription Inviting and accepting invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Article



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	The Relationship between spelling and sound Paying Compliments
8	4	Sentence Transcription Describing Daily Routines
6	3	Asking Permission My Visions for India
9	4	If - Poem The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for directions and giving directions
12	5	Kiran Bedi
13	5	Use of wrong tenses Use of prefixes and suffixes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>PEPS02A : PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening: Listening to audio text and answering questions - Listening to Instructions Speaking: Pair work and small group work.
2	1	Reading: Comprehension passages –Differentiate between facts and opinion Writing: Developing a story with pictures. Vocabulary: Register specific - Incorporated into the LSRW tasks
3	2	Listening: Listening to process description.-Drawing a flow chart. Speaking: Role play (formal context)
4	2	Reading: Skimming/Scanning- Reading passages on products, equipment and gadgets. Writing: Process Description –Compare and Contrast Paragraph-Sentence Definition and Extended definition- 3 Free Writing. Vocabulary: Register specific - Incorporated in...
5	2	Writing: Process Description –Compare and Contrast Paragraph-Sentence Definition and Extended definition- 3 Free Writing. Vocabulary: Register specific -Incorporated into the LSRW tasks.
6	3	Listening: Listening to interviews of specialists / Inventors in fields (Subject specific) Speaking: Brainstorming. (Mind mapping). Small group discussions (Subject- Specific)
7	3	Reading: Longer Reading text. Writing: Essay Writing (250 words) Vocabulary: Register specific - Incorporated into the LSRW tasks TEST

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening: Listening to lectures. Speaking: Short talks.
9	4	Reading: Reading Comprehension passages Writing: Writing Recommendations Vocabulary: Register specific - Incorporated into the LSRW tasks TEST
10	5	Listening: Listening comprehension- Listening for information. Speaking: Making presentations (with PPT- practice).
11	5	Reading : Comprehension passages –Note making. Comprehension: Motivational article on Professional Competence, Professional Ethics and Life Skills)
12	5	Writing: Problem and Solution essay– Creative writing – Summary writing
13	5	General Talk Listening Speeches
14	3	TEST 3 & TEST 4
15	5	TEST 5

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prathani) Pavalaru Paruchiyhiranar - Kanicharu
4	1	Kanadasan - Thavru - manipu
5	5	Ilakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendiru Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathi - orunal Kazinthzthu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 PALLAVAR KAALAM - ILAKKIYANGAL
2	1	1.1 VALLALAR - THIRUVARUT KODAI (4798, 4799, 4802) 1.2 THIRUNANA SAMBANTHAR MUDHAL THIRUMURAI - THIRU AALAVAUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)
7	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam
2	1	Vallalar - thiruvarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS204S : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Data structure Definition of a Data structure Primitive and Composite
2	1	Data types Arrays
3	1	Operations on Arrays Order Lists.
4	2	Stacks and Queues: Stacks Operation
5	2	Application of Stack Infix to Postfix Conversion Queues
6	2	Operations on Queues Queue Applications Circular Queue
7	3	Linked List Singly Linked List

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Representation of a Polynomial Polynomial addition
9	3	Doubly Linked List.
10	4	Trees Binary trees Representation
11	4	Conversion of Forest to Binary tree
12	4	Tree Traversals Inorder Postorder Preorder
13	5	Graphs Definition Graph Representation
14	5	Types of Graphs
15	5	Shortest Path (Djikistras Algorithm).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CS102S : DIGITAL LOGIC FUNDAMENTALS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to computerDigital Computers and Digital Systems - Binary Number System – Binary Addition – Binary Subtraction
2	1	Binary Multiplication and Division-Number Base Conversion: decimal -Revision Test
3	1	Number Base Conversion: binary, octal, hexadecimal-Revision Test
4	2	Basic Definitions of Boolean algebra - Basic Theorems and Properties of Boolean Algebra
5	2	Digital Logic Gates: AND, OR, NOT, NAND, NOR, Exclusive OR and Exclusive NOR Gates
6	2	DeMorgan's Theorem – Universal gates.-Revision Test
7	3	Sum of Products and Product of Sums – Karnaugh Maps - Two and Three Variable Maps

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Four Variable Maps -Don't Care Conditions -Revision Test
9	3	Examples using 4 variables- Rolling the Map – Eliminating Redundant Groups -Revision Test
10	4	Adders: Half Adder, Full Adder – Subtractors: Half subtractor, Fullsubtractor.
11	4	Binary Adder- BCD Adder – Encoder - Examples-Revision Test
12	4	Decoders – Multiplexers – Demultiplexers.-Revision Test
13	5	Flip Flops – RS Flip Flop – Clocked RS Flip Flop – D Flip Flop
14	5	K Flip Flop – T Flip Flop – Master Slave Flip Flop -Revision Test
15	5	Counters: – Asynchronous and synchronous Counter-Revision Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CS101B : PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Syllabus introduction C language introduction Evolution of c language Basic Structure of c program Character set
2	1	Keywords Identifiers Data types Variables Constants
3	1	Operators Statements Expressions Library Functions
4	2	Input and output functions Simple programs
5	2	Simple if If else statement Else if statement Nested statements Switch statement
6	2	for loop while loop do while loop goto statement break and continue statements
7	3	array types of array



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	functions user defined function function prototypes
9	3	passing array to a function programs using functions
12	4	difference between structure and union difference between array and structure
13	5	pointers
14	5	passing pointers to a functions file introduction operations on file
15	5	file functions for opening and closing file input and output functions example program
10	4	structure structure creation accessing structure elements
11	4	union union creation accessing union elements

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CSP101B : PRACTICAL - PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic programs
2	1	Program using different types of operator
3	1	Programs using library functions
4	2	Programs using input and output functions
5	2	Programs using branching statements
6	2	programs using looping structures
7	3	programs using arrays

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	programs using user defined functions
9	3	programs for passing array to a function
10	4	programs using structure
11	4	programs using union
12	5	programs using pointers
13	5	programs for passing pointer to a function
14	5	programs using file functions
15	5	programs to implement recursion

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS203S : PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to OOP's Advantages of OOP's Applications of OOP's
2	1	Key components of OOP's CPP introduction Basic structure of CPP program
3	1	input output stream classes Simple programs in CPP
4	2	Unformatted input and output statements Tokens
5	2	Control structures Branching and looping Arrays and its types
6	2	Function Function prototype Inline function
7	3	class object Simple program using class and object

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Constructor Default Constructor Parameterized constructor
9	3	Copy constructor Multiple constructor Destructor
10	4	Inheritance Access specifiers Single inheritance Multiple inheritance
11	4	Multilevel inheritance Hierarchical inheritance Hybrid inheritance
12	4	Virtual Function Virtual base class Friend function
14	5	Output operation on files End of file detection
15	5	File operations Command line arguments
13	5	Introduction to file File pointer creation File input operations

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	1	CPP programs using class and objects
3	1	CPP program using Inline Functions
4	2	CPP program using friend function
5	2	CPP program using default and parameterized constructors
6	2	CPP program using copy and multiple constructors CPP program using destructors
7	3	Operator overloading CPP program using single inheritance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	CPP program using multiple inheritance
9	3	CPP program using multilevel inheritance
10	4	CPP program using hierarchical inheritance
11	4	CPP program using hybrid inheritance
12	4	CPP program to perform push and pop operations of stack using array
13	5	CPP program to perform insertion and deletion operations of queue using array
14	5	CPP program to perform infix to postfix conversion
15	5	CPP program to perform tree traversals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	2	CPP programs using class and objects
3	3	CPP program using Inline Functions
4	4	CPP program using friend function
5	5	CPP program using default and parameterized constructors
6	6	CPP program using copy and multiple constructors
7	7	CPP program using single inheritance



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	CPP program using multiple inheritance
9	9	CPP program using multilevel inheritance
10	10	CPP program using hierarchical inheritance
11	11	CPP program using hybrid inheritance
12	12	CPP program to perform push and pop operations of using stack
13	13	CPP program to perform insertion and deletion operations of queue using array
14	14	CPP program to perform infix to postfix conversion
15	15	CPP program to perform tree traversals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	ILLAKKIYA VARALARU - IRUBATHAM NOOTTRANDU KAVIGHERGAL
2	1	BARATHIYARIN KANINILAM VENDUM BHARATHIDASSANIN NAATTIYAL NAATTUVOM
3	1	NAMAKAL VE RAMALINGAM PILLAIYIN THAMIZHAN ITHAYAM PAVALERERU PERUNCHITHRANARIN KANICHARU
4	1	KANNADASANIN THAVARU- MANNIPPU SURATHAVIN MELADAI KAVITHAI
5	5	ILLAKANAM - MUTHAL EZHUTHUKAL, SAARBEZHUTHUKKAL
6	5	VALOTTRU MIGUMIDAM VALOTTRU MIGAVIDAM
7	3	PUTHUKAVITHAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	AREVUMATHIYIN POOTHA NERUPPU MEERAVIN PILLAITHAMIZH
9	2	ERODU THAMIZHANBANIN VETTRE MUGAM VAIRAMUTHUVIN SUTHANTHIRAM
10	2	SIRPI- ABDULKALAMIN VEENAI
11	2	HAIKKO KAVITHAIGAL- AMUTHABHARATHIYIN KATTRIN KAIGAL, BOOBATHIRAJAVIN RAJANGAM, NANDAVANAM- SANTHIRASEGARAN, THURAVI
12	2	SENREYUK KAVITHAIGAL-
13	3	ILLAKKIYA VARALARU- SIRUKATHAI THOTTRAMUN VALARCHIYUM
14	4	SIRUKATHAI- KADAVULUM KANDASAMI PILLAIYUM ORUNAAL KAZHINTHATHU
15	4	KAALANUM KIZHAVIYUM AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BAKKTHI ILLAKKIYANGAL VALLALAR - THIRUVARUL KODAI 4798, 4799, 4802 THIRUGHNANA SAMBANDER - MUTHAL THIRUMURAI, THIRUAALAVAYUM-NATTAPPADAI 65,66,67
2	1	PEREYAZHVAR - THIRUPPALLANDU 1-10 NAMMAZHVAR , THIRUVAAIMOZHI 10, 1-5
3	1	VANNAKALANGIYAPPULAVAR - KUTHPPUNAAYAGA PURANAM, THEENVILAKKAM 172, 1149 VETHANAYAGAM PILLAI- NEETHI NOOL 421, 89, 90
4	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 1-4 THALAPPUGAL
5	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 5-8 THALAPPUGAL
6	4	ILLAKKIYAVARALARU PALLAVER KAALUM THOTTRAMUM VALERCHIYUM
7	4	ILLAKKIYA VARALARU- URAINADAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	SITRELAKKIYANGAL , SITHER ILAKKIYANGAL PALAPPATTADAI SOKKANATHAP PULAVER - AZHAGER KILLAI VIDU THOOTHU PAGAZHIKKOOTHER - THIRUSENTHOOR MURUGAN PILLAITHAMUZH
9	2	KUMARAKURUBARAER - MADURAI MEENATCHIYAMMAI IRATTAI MANIMAALAI KATTALAI KALITHURAIYIL 2 PAADALGAL ARUNAGIRENATHER THIRUPPUGAZH- THIRUSENTHOOR
10	2	PATTINATHAR -THIRUTHILLAI 1-10 PAADALGAL
11	2	SIVAVAAKKIYAR 9,10,11 PAADALGAL
12	4	ILLAKKIYA VARALARIL NAAYAKKER KAALAM THOTTRAMUM VALARCHIYUM
13	4	SITHER ILLAKKIYAM THOTTRAMUM VALARCHIYUM
14	5	ILLAKKANAM YAAPPILAKKANAM -EZHUTHU, ASAI, SEER, ADI-URUPPUGAL
15	5	ILLAKKANAM VETTRUPPORUL VAIPPANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making request & responding to thanks
2	1	Prose : how to be doctor - Stephen leacock
3	2	Auguries of innocence -William Blake
4	2	Note making Use of wrong preposition Unnecessary use of article
5	3	My vision for India - A. p. J Abdul kalam
6	3	Asking giving for & refusing permission
7	3	ICIA The relationship between spelling & word

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Report writing Punctuation capital Poem IF Rudyard Kipling
9	4	One Act play. The merchant of Venice by William Shakespeare
10	4	Sentence transcription
11	4	Paragraph writing
12	4	Paragraph writing
14	5	IICIA Use of wrong tense
15	5	Revision
13	5	Biography -kiran bedi

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs Based on HTML Tags
2	1	HTML programs on Lists & Tables
3	1	HTML programs on Frames and Forms
4	2	Simple programs on Java Script
6	2	Java Script programs on dialog Boxes
7	3	Java Script programs on object
8	3	Java Script programs on Built in Objects

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Java Script programs on user defined Objects
10	4	Programs Based on CSS
11	4	Programs Based on CSS Properties-Font
12	4	Programs Based on CSS Properties-Text
13	5	Programs Based on XML
14	5	Programs Based on XML Schema
15	5	Programs Based on XML parsers
5	2	Simple programs on Java Script using operators

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS408 : COMPUTER ARCHITECTURE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction about general register organization - stack organization - register stack and memory stack - instruction format -
2	1	Three address instruction - two address instruction - one address instruction - addressing mode.
3	1	Data transfer and manipulation - data transfer instruction - data manipulation instruction - program control instruction. class test for unit one
4	2	Pipelining - Arithmetic pipelining - signed 2 s complement - class test
5	2	Instruction - instruction paneling - booth multiplication - class test
6	2	Multiplication algorithm - RISC Pipelining-Vector Processing - Assignment
7	3	Computer Arithmetic: Addition and Subtraction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multiplication and division Algorithms –
9	3	Floating Point - addition and subtraction - Decimal Arithmetic arithmetic and subtraction operations - class test
10	4	Input Output Organization: Peripheral Devices- I/O Interface - mode of data transfer - hand shaking and strobe - seminar.
11	4	Asynchronous Data Transfer- daisy chain priority interrupt - parallel priority interrupt - Models of Transfer- Class test
12	4	Direct Memory Access – I/O Processor - class test.
13	5	Memory Organization: Memory Hierarchy – functions of memory
14	5	Main Memory- discuss about RAM and ROM- Auxiliary Memory – magnetic disc and magnetic tape.- seminar
15	5	Associative Cache memory - set- associative and associative memory and Virtual Memory - Revision and test.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CS305 : JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Fundamentals of Java Language- Introduction to Java – Features of Java-Revision Test
2	1	Data Types – Arrays - Control Statements-Revision Test
3	1	Classes – Objects—Overloading method-Revision Test
4	2	Packages – Importing Packages – Revision Test
5	2	Interfaces-Example Code-Revision Test
6	2	Exception Handling-Examples-Revision Test
7	3	Thread :Life Cycle of Thread – Multithreading-Revision Test



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Applets :Applet life cycle – creating simple applets- Loading and displaying images on applet-Revision Test
9	3	applets Examples- working with graphics-Revision Test
10	4	AWT :AWT controls –windows Fundamentals - layout managers-Revision Test
11	4	JDBC: JDBC Architecture – Connecting to a Database (MS Access) – Revision Test
12	4	SQL commands-select, insert, delete, update-Revision Test
13	5	NETWORKING: Networking Basics-URL- Inet Address – TCP/IP Sockets -Revision Test
14	5	Networking– TCP/IP Sockets .RMI :Introduction to RMI-Revision Test
15	5	RMI architecture - Example using RMI-Revision Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CSP303 : PRACTICAL - JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Java Programs
2	1	Basic Java Programs
3	1	Finding area and Perimeter of a circle. Use Buffered Reader class-Logic programs
4	2	Implementing and importing packages.
5	2	Implementing Interfaces-Arithmetic Manipulations-More Examples using Package and interface
6	2	Exception Handling
7	3	I-CIA practical Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multithreading-Examples of Thread code
9	3	Applet basic codes-Loading image onto applet
10	4	Implement an application for Arithmetic operation using AWT
11	4	Create a database for storing and manipulating student mark list using AWT.
12	4	program to send in two values to the server program and get back the result calculated using RMI
13	5	Incorporating circle symbol onto Bean box.
14	5	II-CIA Exam
15	5	Revision of all programs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS407 : INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to HTML – List -basic tags-formatting tags
2	1	Creating Table – Linking Document Frames -frame code
3	1	Graphics to HTML Doc-revision
4	2	Introduction – Advantage of JAVA Script
5	2	JAVA Script Syntax – Data type – Variable – Array – array objects
6	2	Operator and Expressions – Looping Constructor – Function – Dialog Box.
7	3	JSSS DOM-understanding objects in HTML

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Browser objects-JavaScript forms: -Form objects
9	3	built-in objects (String, Math, Date)-User defined objects.
10	4	Cascading Style Sheets-Class-Using Span Tag-
11	4	External style sheets-Using div tag-format tag objects
12	4	Layers-dom objects-method implementation-revision
13	5	XML: Basic XML- Document Type Definition
14	5	XML Schema DOM and Presenting XML, XML Parsers
15	5	XML Validation, XSL and XSLT Transformation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic HTML code-tags implementation-Image code
2	1	Creating a static web page which defines all text formatting tags of HTML in tabular format
3	1	Creating a static webpage using table tags of HTML
4	2	Creating webpage using list tags of HTML.
5	2	Applying style sheet in Webpage
6	2	Creating webpage using FORMS.
7	3	I CIA model exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Script code for n numbers of Fibonacci series
9	3	Script code for employee salary calculation.
10	4	Script code for simple Calculator
11	4	Script Code using Math Functions.
12	4	Script Code using String Functions.
13	5	script code for web page design
14	5	II CIA exam
15	5	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Aimperum kappiyangal
2	4	Aimsiru kappiyangal
3	4	Irattai kappiyam
4	1	Silapathikaram-kunrakkuravai.
5	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(1-60).
6	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(61-129).
7	2	Seevagasinthamani-Naamagal Ilambagam.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai vaanoli nigazhahi thoguppu, vadikaiyalar sevai maiya aluvalar, sutrula vazegate,kadithangal,pothu katturai.
9	4	Pira kappiyangal
10	2	Kambaramayanam-kaikayi suzhvinai padalam.
11	4	Christava kappiyangal.
12	4	Islam kappiyangal.
13	3	Periyapuramam-Ilayankudi mara nayanar.
14	3	Thembavani-Sethayan vetri padalam.
15	3	Seerapuramam-kama padalam.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock Interviews Actual Interviews Facing an Interview
2	1	Tele - Interviews The Count of Monte Cristo - Alexandre Dumas ( Chapter 1-5)
3	1	The Count of Monte Cristo - Alexandre Dumas (Chapter 6-10) Description
4	2	Words often Confused The Count of Monte Cristo - Alexandre Dumas Chapter (11-15)
5	3	Tele - Conferences The Count of Monte Cristo - Alexandre Dumas Chapter (16-25)
6	3	Receiving Visitors The Count of Monte Cristo - Alexandre Dumas Chapter ( 26 -30)
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones The Count of Monte Cristo - Alexandre Dumas Chapter (31-35)
9	4	Booking Hotel Accommodation The Count of Monte Cristo - Alexandre Dumas Chapter (36 -40)
10	4	Negotiations The Count of Monte Cristo - Alexandre Dumas Chapter (41-44)
11	5	The Count of Monte Cristo - Alexandre Dumas Chapter (45 - 49) Making Appointments
13	5	Writing Review of Books
14	5	II CIA Exam
15	5	Revision and Test
12	5	Cancelling and Rescheduling Appointments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering
2	1	Introduction a guest to the audience Thanking the gathering & organization
3	1	One act play Refund - Fritz karinthy
4	2	Quit india movement
5	2	Tryst with destiny -jawarhalal Nehru
6	2	One Act play The Bear - Anton Chekhov
7	2	Spotting error

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Gettysburg address - Abraham Lincoln
9	3	I have dream - Martin Luther King
10	4	The hour of truth
11	4	Email writing Inaugural address Prepared to die
12	4	Presentation skills
13	4	Auto biography sorrows of childhood Resume Writing
14	5	Some useful expresion Speech writing
15	5	Marie Curie - biography Sarojini naidu-biography Minutes of writing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>ASCP401T : ALLIED PRACTICAL - STATISTICAL METHODS FOR COMPUTER APPLICATIONS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Karl Pearson's Correlation Coefficients. Sperman's Rank Correlations.
2	3	Spearman's Rank Correlation Repeated rank. Grouped rank.
3	3	Regression Equations.
4	4	Fitting of Binomial Distribution.
5	4	Fitting of Poisson Distribution.
6	4	Fitting of Normal Distribution.



7	4	Test for single population mean. Test for Difference Population Mean.
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<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Paired T Test. Test for Correlation Coefficients.
9	4	Test for single Population variance. Test for Difference Population variance.
10	4	chi-square test - Goodness of fit
11	4	Large sample tests: Based of Mean and Proportions.
12	4	Chi-Square distribution: Test for independence of attributes.
13	5	Complete Randomized Design
14	5	Randomized Block Design
15	5	Latin Square Design

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19ASCS31 : Statistical Methods For Computer Applications-I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation,
6	2	Standard Deviation and Coefficient of Variation.
7	3	Measures of Skewness: Karl Pearson's, Bowley's Coefficient of Skewness.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Kelly's Coefficient of Skewness.
9	3	Kurtosis based on Moments.
10	4	Sample Space – events – definition of Probability
11	4	Addition and Multiplications theorems – simple problems.
12	4	Conditional probability – Baye's theorem (proof only).
13	5	Concept of Random Variable – Probability mass function, Probability density function
14	5	Distribution function.
15	5	Mathematical Expectation: Properties of expectations, Chebychev's inequality (only theorem).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19ASCS42 : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Correlation: Scatter diagram, Karl Pearson's Correlation Coefficients.
2	1	Spearman's rank and Concurrent deviation methods.
3	1	Regression Analysis: Simple regression equations.
4	2	Standard distributions: Binomial (mean and variance).
5	2	Poisson (mean and variance) and fitting of these distributions.
6	2	Normal distributions (characteristics and area problems).
7	3	Concept of Sampling distributions–Standard Error–Tests of Significance based on t, Chi –Square.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	F distributions with respect of Mean, Variance and Correlation coefficient.
9	3	Chi – Square test for independence of attributes. Goodness of fit. Large sample test based on Mean and Proportions.
10	4	Analysis of Variance: One way and two way classifications.
11	4	Basic principles of design of experiments: Randomization, Replication and Local Control – CRD,.
12	4	RBD and LSD.
13	5	Introduction to MS- Excel and its usage in data analysis
14	5	Representations of statistical data by using diagrams (column diagram, bar diagram, line diagram, scatter diagram and pie-diagram).
15	5	Excel functions regarding descriptive statistics (average, median, mode, STDEV, VAR, skewness and kurtosis functions)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Computer Science	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthava Kap[iyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS408 : COMPUTER ARCHITECTURE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction about general register organization - stack organization - register stack and memory stack - instruction format -
2	1	Three address instruction - two address instruction - one address instruction - addressing mode.
3	1	Data transfer and manipulation - data transfer instruction - data manipulation instruction - program control instruction. class test for unit one
4	2	Pipelining - Arithmetic pipelining - signed 2 s complement - class test
5	2	Instruction - instruction paneling - booth multiplication - class test
6	2	Multiplication algorithm - RISC Pipelining-Vector Processing - Assignment
7	3	Computer Arithmetic: Addition and Subtraction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multiplication and division Algorithms –
9	3	Floating Point - addition and subtraction - Decimal Arithmetic arithmetic and subtraction operations - class test
10	4	Input Output Organization: Peripheral Devices- I/O Interface - mode of data transfer - hand shaking and strobe - seminar.
11	4	Asynchronous Data Transfer- daisy chain priority interrupt - parallel priority interrupt - Models of Transfer- Class test
12	4	Direct Memory Access – I/O Processor - class test.
13	5	Memory Organization: Memory Hierarchy – functions of memory
14	5	Main Memory- discuss about RAM and ROM- Auxiliary Memory – magnetic disc and magnetic tape.- seminar
15	5	Associative Cache memory - set- associative and associative memory and Virtual Memory - Revision and test.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CS305 : JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Fundamentals of Java Language: Introduction to Java – Features of Java – Structure of Java Program-Data Types-Simple basic programs on Java
2	1	Arrays - Control Statements-Selection Statements-Iteration Statements-Jump statements-Programs based on Arrays and Control Statements
3	1	Classes – Objects—Overloading method-Summary of the unit
4	2	Packages, Interfaces and Exception Handling: Packages – Types of Packages-Importing Packages -User defined packages-Programs based on the packages
5	2	Interfaces-Extending interface-variables used in interface-implementing interface
6	2	Exception Handling-Types of Errors-try-catch-throw-throws-finally-programs based on Exception Handling
7	3	Thread :Life Cycle of Thread – Multithreading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Applets :Applet life cycle – creating simple applets- Loading and displaying images on applets
9	3	working with graphics
10	4	AWT :AWT controls –windows Fundamentals
11	4	Layout managers-Flow Layout-Border Layout-Grid Layout-Card Layout-JDBC Architecture
12	4	Connecting to a Database (MS Access) – SQL commands-select, insert, delete, update.
13	5	NETWORKING: Networking Basics-URL- Inet Address
14	5	TCP/IP Sockets
15	5	RMI :Introduction to RMI-RMI architecture - Example using RMI.



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CSP303 : PRACTICAL - JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs based on Java
2	1	Program based on Arrays & Control Statements -Finding area and Perimeter of a circle. Use BufferedReader class.
3	1	Programs Based Class, Methods and objects
4	2	Implementing and importing packages
5	2	Implementing Interfaces-Arithmetic Manipulations-Programs based on interface using BufferedReader class
6	2	Program based on Exception Handling
7	3	Multithreading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating simple programs based on Applets
9	3	Loading image onto applet
10	4	Simple Programs using AWT Controls
11	4	Implement an application for Arithmetic operation using AWT.
12	4	Create a database for storing and manipulating student mark list using AWT.
13	5	Simple programs based on Networking
14	5	Write a program to send in two values to the server program and get back the result calculated using RMI
15	5	Incorporating circle symbol onto Bean box.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS407 : INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to HTML-HTML Structure-List-ordered List-Unordered List-Definition List-Simple Programs based on HTML Elements.
2	1	Creating Table – Linking Document
3	1	Frames –Graphics to HTML Doc-Summary of the Unit
4	2	Introduction – Advantage of JAVA Script - JAVA Script Syntax – Data type
5	2	Variable – Array – Operator and Expressions -Looping Constructor
6	2	Function – Dialog Box -alert-confirm -Prompt- Slip test
7	3	JSSS DOM-understanding objects in HTML- DOM objects in Java Script-Simple programs based on DOM in HTML

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	-Browser objects- JavaScript forms: -Form objects- Built-in objects(Math Objects- String Objects)
9	3	Built-in objects -Date-User defined objects.
10	4	Cascading Style Sheets-Class-Simple programs based on CSS
11	4	Using Span Tag-External style sheets
12	4	Using div tag-Layers-Summary of the unit
13	5	XML: Basic XML- Document Type Definition-XML Schema DOM and Presenting XML,
14	5	XML Parsers and Validation
15	5	XSL and XSLT Transformation-Revision of the syllabus

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creates a simple page without any content using HTML tags- Text Formatting tags of HTML-Creating HTML Document Using Heading Tags-Creating HTML Document Using Comments-Creating HTML Document Using Marquee Tag.
2	1	Create webpage using list tags of HTML-Crete a Simple web page using Table Tags with Attributes- Create a static web page which defines all text formatting tags of HTML in tabular format
3	1	Create a static webpage using table tags of HTML-Programs using Frames
4	2	Simple programs on Java Script-Java Script Programs based on data types-operators-Arrays
5	2	Java Script Programs based on Control Statements
6	2	Java Script Programs based on Functions and Dialog Boxes
7	3	Java Script Programs based on DOM-Java Script Programs based on BOM- HTML FORMS using FORM Tags

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create webpage using FORMS-Script code for n numbers of Fibonacci series - Script code for Sum of n numbers
9	3	Script code for employee salary calculation
10	4	Script code for simple Calculator-Simple Programs Based on CSS
11	4	Programs Based on CSS Properties-Font- Colors-Text -selector
12	4	Programs based on Implementing the types of Style Sheets-Apply style sheet in Webpage
13	5	Simple Programs based on XML-Script Code using Math Functions.
14	5	Program on XML Validation-XML DTD-XML DOM
15	5	Programs on XSLT-Script Code using String Functions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Computer Science	Semester	3
Subject	LT303A : TAMIL - III	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1. SEEVASINTHAMANI - NATTUVALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUVU KAAPIYAM
12	4	4.4. ISLAMIYA KAAPIYAM
13	3	3.1. PERIYAPURANAM - ILLAIYANKUDI MAARANAYANAAR PURANAM
14	3	THEMPAAVANI - SETHAION VTRI PADALAM
15	3	SEERAAPURANAM - KAAMAPADALAM



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Imperunkaapiyangal
2	4	Inchirukaapiyangal
3	4	Irattai kaapiyangal
4	1	Silappathigaram - Kuntra Kuravai kaathai
5	1	Manimegalai - vuthayakumaranaai vaalaal Erintha Kaathai
6	1	Manimegalai - vuthayakumaranaai vaalaal Erintha Kaathai
7	2	Seevagasinthamani - Nattuvalam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai Vaanoli Nigazhchi Thoguppu, vaadikkaiyalar sevai Maiya Aluvalagam, Sutrulaa Vazhikaatti Kaditham Pothukatturai
9	4	Pirakappiyangal
10	2	Kamparaamayanam - Kaikeyi Soozhvinai Padalam
11	4	Kirithuva Kaapiyangal
12	4	Islamiya Kaapiyangal
13	3	Periyapuraanam
14	3	Thempaavani
15	3	Seerapuranam - Kaamaapadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SARANRAJ R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19ASCS31 : Statistical Methods For Computer Applications-I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data –
2	1	Tabulation of data – Diagrammatic and Graphical representation of data –
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: Range, Quartile Deviation,
6	2	Mean Deviation, Standard Deviation and Coefficient of Variation.
7	3	Measures of Skewness: Karl Pearson's Coefficient of Skewness.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bowley's, Kelly's Coefficient of Skewness.
9	3	Kurtosis based on Moments
10	4	Probability: Basic definitions – Axiomatic approach to Probability – Basic theorems on Probability – Addition theorem on probability and related problems.
11	4	Conditional probability Multiplication theorem of probability and related problems.
12	4	Independent events – Pair wise Independent events (definition only) – Baye's theorem and related problems.
13	5	Concept of Random Variable – Probability mass function, Probability density function and Distribution function.
14	5	Mathematical Expectations: Properties of Expectations – Variance, Covariance and their properties. Moment generating function – Characteristics function - Cumulants.
15	5	Properties of expectations, Chebychev's inequality (only theorem).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19ASCS31 : Statistical Methods For Computer Applications-I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation,
6	2	Standard Deviation and Coefficient of Variation.
7	3	Measures of Skewness: Karl Pearson's, Bowley's Coefficient of Skewness.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Kelly's Coefficient of Skewness.
9	3	Kurtosis based on Moments.
10	4	Sample Space – events – definition of Probability
11	4	Addition and Multiplications theorems – simple problems.
12	4	Conditional probability – Baye's theorem (proof only).
13	5	Concept of Random Variable – Probability mass function, Probability density function
14	5	Distribution function.
15	5	Mathematical Expectation: Properties of expectations, Chebychev's inequality (only theorem).



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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANGEL W	Academic Year	2022-2023
Department	Computer Science	Semester	3
Subject	20LE303 : COMMUNICATIVE ENGLISH - III	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience Thanking the gathering and Organizers of an event
2	1	Refund-Fritz Karinthy Publicity Literature
3	2	Giving one's opinion on current national/ Social issues Spotting errors Tryst with Destiny-Jawaharlal Nehru
4	2	Quit India- Mahatma Gandhi The Bear-Anton Chekhov
5	3	Preparing news items of local events and speaking about them Sample news item E- mail writing
6	3	The Hour of Truth - Percival Wilde Gettysburg address- Abraham Lincoln I have a Dream- Martin Luther king
7	123	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Inaugural Address - John F. Kennedy Students Seminar
9	4	Prepared to Die- Nelson Mandela Presentation Skills
10	4	Sorrows of Childhood - Charles Chaplin Resume Writing
11	5	Some useful Expressions Speech Writing
12	5	Minutes Writing
13	5	Marie Curie - Colin Mitchell Sarojini Naidu - Padmini Sengupta
14	45	Revision
15	45	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock Interviews/Actual Interviews Facing an interview Tele - Interviews
2	1	Julius Caesar- Funeral Oration - William Shakespeare Words often confused Receiving visitors
3	2	Seminar skills Idioms and phrases The use of Graphics
4	2	Count of Monte Cristo- Alexander Dumas
5	3	Macbeth - William Shakespeare Homonyms and similar words Tele - Conference
6	3	Henry IV- William Shakespeare Handling customers or clients
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making small talk and telling stories
9	4	As you like it- William Shakespeare ( play)
10	5	Negotiations Making appointments
11	5	Hamlet - William Shakespeare ( play)
12	5	The Count of Monte Cristo- Alexander Dumas ( chapter 31- 40) The count of Monte Cristo- Alexander Dumas ( chapter 41-49)
14	5	Revision
15	5	II CIA
13	4	Writing reviews of Books Cancelling and rescheduling appointments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction in php
2	1	Php simple program
3	1	String functions
4	2	Math functions
5	2	Array sorting
6	2	Functions in factorial
7	3	Functions in Fibonacci

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Home page design
9	3	Form creation using post method
10	4	Database connection
11	4	Database connection
12	4	Database connection
13	5	Login program
14	5	Mark sheet processing
15	5	Electricity bill

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Memory Management: Real Memory Management, Virtual Memory Management
2	3	Real Memory Management: Contiguous Real Memory Management, Single Contiguous , Fixed Partitioned, Variable Partitions, Non- Contiguous Real Memory Management
3	3	Paging , Segmentation - Virtual Memory Management Systems.
4	2	Process Management: Context Switching, Different States of Process, Process State Transition Diagram
5	2	Process Control Block (PCB), Operation on Process – Levels of Scheduling – Short term Scheduling Policies: Round robin method -
6	2	Scheduling based on priority (or priority method) - Priority class method - Heuristic scheduling. - Inter-process communication
7	3	CLASS TEST

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	CLASS TEST
9	2	REVISION(SEMESTER QUESTIONS)
10	3	REVISION(SEMESTER QUESTIONS)
11	4	GUI – Components of GUI – Requirements of Windows based GUI
12	4	Security: Threats – Attacks – Worms – Virus - Design principles
13	4	Encryption: Methods of Encryption
14	4	Authentication: Authentication in Centralized Environment, Authentication in Distributed Environment.
15	4	REVISION (SEMESTER QUESTIONS) & CLASS TEST



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### LESSON PLAN

Name of the Staff	<b>Dr.JOHNSON DURAI A.R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19ECS51A : SOFTWARE ENGINEERING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Software Engineering and Models: Introduction -Characteristics of Software-Software Myths
2	1	Process Models: The Waterfall Model- Incremental Process Models: The Incremental Model, The RAD Model
3	1	– Evolutionary Process Models: Prototyping, The Spiral Model, The Concurrent Development Model.
4	2	Requirement Engineering: Requirement Engineering Tasks: Inception, Elicitation, Elaboration, Negotiation, Specification, Validation, Requirement management
5	2	Initiating the Requirements Engineering Process: Identifying the stake-holder, Recognizing the multiple view point, Working towards collaboration, Asking the first question
6	2	Eliciting Requirements: Collaborative requirement gathering- Quality function deployment (QFD)- Users scenarios- Elicitations work product.
7	3	Building Analysis Model: Requirement Analysis: Overall objectives and Philosophy, Analysis Rule of thumbs

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Domain Analysis - Data Modeling: Data Objects, Data Attributes, Relationships, Cardinality and Modality
9	3	Flow Oriented Modeling – Class Based Modeling Creating a Behavioral Model.
10	4	Testing: Introduction about testing: Testing ,Generic characteristics of testing, Verification and Validation - Test Strategies for Conventional Software: Unit Testing, Integration Testing: Top-down Integration, Bottom-up Integration
11	4	Validation Testing – System Testing –White Box Testing – Basic Path testing : Flow Graph Notation, Independent paths, Cyclomatic Complexity, Graph matrices method – Control Structure
12	4	Black Box Testing: Graph-Based Testing Methods , Equivalence Partitioning, Boundary Value Analysis, Orthogonal Array Testing.
13	5	Project Management: The Management Spectrum- The People: The Players, Team Leaders, he Software Team- Coordination and Communication Issues
14	5	The Product: Software Scope, Problem Decomposition - The Process: Melding the Product and the Process, Process Decomposition
15	5	The Project: Signs of Project Failure, Five-part commonsense approach to software projects - Formal Technical Reviews(FTR).

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### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction and installation of GIMP
2	1	Demonstrate using Tool-box
3	1	Demonstrate using Tool-box
4	1	The menus and windows
5	1	The menus and windows
6	1	Performing Text Effects
7	1	Modify Color effects in images

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Drawing Shapes in GIMP
9	1	Cutting Images and removing background
11	1	Design a Business Card
12	1	Design a Business Card
13	1	Develop a Banner for College
14	1	Develop a Banner for College
15	1	Develop a Banner for College
10	1	Cutting Images and removing background

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>JCS601 : MINI PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Design a ASP.NET Web Forms using Server Controls-Label-TextBox-Button-LinkButton-ImageButton-Hyperlink
2	1	Design a ASP.NET Web Forms using Server Controls-DropDownList-ListBox-CheckBoxList-RadioButton-RadioButtonList
3	1	Design a ASP.NET Web Forms using Server Controls--Image-Panel
4	2	Design a ASP.NET Web Forms using AdRotator
5	2	Design a ASP.NET Web Forms using Placeholder - Literal
6	2	Design a simple web page on Asp.net using Controls with C#
7	3	Design a simple web page on ASP.NET using validation controls

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Design a simple web page on ASP.NET implementing FileUpload and Multiple FileUpload Control
9	3	Design a ASP.NET Web Forms using DataList and DataGrid
10	4	Create a ADO Database Connection in ASP.NET web Forms
11	4	Create an ODBC Connection to an MS Access Database in ASP.NET
12	4	Create a multiple Web forms using Master pages
13	5	Create a ASP.NET form using Navigation Controls
14	5	Create a ASP.NET form using Data Validation Controls
15	5	Create a Simple website using ASP.NET Controls.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Demonstrate tool box
2	1	The menu and windows
3	1	Using layers and layer masking
4	2	Performing text effect
5	2	Using filters in image
6	2	Modifying colors effect in image
7	3	Drawing different shapes in GIMP

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Color filter and adding effects
9	3	Cutting images and removing background
10	4	Design business card
11	4	Develop a banner for college
12	4	Creating wallpaper
13	5	Adding Lighting effects
14	5	Creating composition
15	5	Creating certificates



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>JCS601 : MINI PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Arrangement of contents TitlePage
2	2	BonafideCertificate
3	3	Acknowledgement
4	4	Table of contents
5	5	Abstract Chapters of the Report
6	6	ReportReferences
7	7	Appendices, if any

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Appendices should be named as
9	9	APPENDIX -A
10	10	APPENDIX -B
11	11	BINDING SPECIFICATION
12	12	MARGIN SPECIFICATION
13	13	PAGE NUMBERING
14	14	TITLE PAGE
15	15	FINAL DOCUMENTATION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19ECS65A : WEB GRAPHICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: HTML Coding Basic Web Graphics
2	1	Web Page Design Site building
3	1	Image Maps – Adding Multimedia to the Web.
4	2	Paint Sharp Pro/Photoshop: Introduction – Image Basics
5	2	File Formats GIF JPEG Color Palette Layers Creating new Images Brushes Grids Scaling Images
6	2	Moving and Merging layer Tool Palette Screen Capturing Gray Using Style Palette Animation.
7	3	Image Handling Scanning images

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	adding text to the images Designing icons Creating background images
9	3	Color models Color Depths Color Calibration Creating Gradients Oil paint effect.
10	4	Multimedia: Creating Clipping Animation with sound effect
11	4	Audio or video Window's Media Player ActiveX control
12	4	Embedding VRML in a web page Real player ActiveX control.
13	5	Applications Creating website with a particular theme
14	5	Graphics
15	5	Animations and Interactions

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY SHAKKINA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS614 : OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creating your Development Environment Mixing HTML and PHP Command Line in PHP
2	1	Command Line in PHP Working with Variables Creating Constants
3	1	Creating Constants Understanding PHP's Internal Data types Operators and Flow Control.
4	2	String Functions Converting to and from Strings Formatting Text String
5	2	Formatting Text String Modifying Data in an Array Deleting Array Elements
6	2	Arrays with Loops PHP Array Functions Sorting Arrays.
7	3	Passing Functions Passing Arrays to Functions Passing by Reference

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Using Default Arguments Returning Data from functions Nesting Functions. Data Input/ Output functions
9	3	flow of control-control structures switch, break and continue Go to statement comma operator.
10	4	Setting up web pages to communication with PHP Handling Text Fields Checkbox
11	4	Radio buttons Password Controls List boxes
12	4	Buttons Hidden Control File Upload.
13	5	Creating a MYSQL Database Creating a New Table Putting Data into the New Database
14	5	Accessing the Databases in PHP Updating Databases Inserting New Data Items into a Database
15	5	Deleting Records Creating New Tables Creating a New Database Sorting your Data.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition of Operating System Booting: Before Booting and after Booting
2	1	Types of Booting Kernel
3	1	History of Operating System First Generation Second Generation
4	1	Third Generation Fourth Generation
5	1	Operating system functions: Information Management,
6	1	Process Management
7	1	Memory Management.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Dead Lock Dead Lock prerequisites
9	2	Dead Lock Strategies
10	3	Virtual Memory Management Systems
11	3	Virtual Memory Management Systems
12	5	Unix - Architecture of Unix: Various Modules and relationship of Unix and their relationship
13	5	Unix File System: Different Types of Files
14	5	Important Unix Directories and Files
15	5	Basic commands in UNIX.



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction and installation of GIMP
2	1	Demonstrate using Tool-box
3	1	Demonstrate using Tool-box
4	1	The menus and windows
5	1	The menus and windows
6	1	Performing Text Effects
7	1	Modify Color effects in images

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Drawing Shapes in GIMP
9	1	Cutting Images and removing background
10	1	Cutting Images and removing background
11	1	Design a Business Card
12	1	Design a Business Card
13	1	Develop a Banner for College
14	1	Develop a Banner for College
15	1	Develop a Banner for College

## INTERNAL QUALITY ASSURANCE CELL

### St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

#### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19ECS52A : DATA COMMUNICATIONS AND NET WORK</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Networks: Introduction about networking- Protocols and standard – line configuration - types of connections - line configuration - point to point - multipoint. Unit test
2	1	topology – types of topology - bus topology - ring topology - mesh topology - etc.. transmission mode – types of transmission - simplex - Half duplex - Full duplex.
3	1	categories of networks – LAN networks - MAN networks - WAN networks - inter networks and networks. Unit test
4	2	The OSI Model: Functions of the layers – Introduction about OSI model - explain about seven layers - Physical - Data - Network - Session - Application - Session - Application Layers - TCP/IP protocol suite.
5	2	signals – analog and digital signal – periodic and a periodic signal – analog signals – digital signal – data transmission - serial and parallel transmission - synchronous and asynchronous transmission.
6	2	data terminal equipment – data circuit terminals equipment – modems. Unit test.
7	3	Transmission Media: Guided media – unguided media – transmission impairments – media comparison. Multiplexing –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	FDM – TDM – WDM. Error detection and correction – types of errors–detection – vertical redundancy check (VRC)
9	3	– longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction.
10	4	Switching: Introduction about switching - types of switching - Circuit switching – packet switching - SVC - PVC
11	4	message switching – types of networking and internetworking devices - networking and internetworking devices - bridges and repeaters - routers and gateways.
12	4	repeaters – bridges - types of bridges – routers – gateways. unit test.
13	5	Routing algorithms: Introduction about routing algorithm - line routing algorithm - link state routing algorithm - Distance vector routing algorithm.
14	5	link state routing - types of link state routing - data link control. Unit test
15	5	line discipline – flow control – types of flow control - error control. Discuss about previous question papers. conducting all unit test.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition purpose of database systems data abstraction
2	1	data models instances and schemes
3	1	data independence database manager database administrator database users overall system structure
4	2	Entity Relationship Model: Entities and entity sets Relationships and Relationship Sets attributes
5	2	mapping constraints keys E-R diagram reducing E-R diagrams to tables generalization and aggregation
6	3	Relational Model: the relational algebra
7	3	the tuple relational calculus

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	the domain relational calculus.
9	4	Normalization: First Normal Form Second Normal Form
10	4	Third Normal Form Boyce – Codd normal form Fourth Normal Form.
11	4	DDL,DML,DCL operations integrity constraints string functions
12	5	number functions data arithmetic selecting distinct values
13	5	working with null values pseudo columns
14	5	grouping and ordering data subqueries joins union ,intersect & minus indexes
15	5	clusters views sequences synonym users, roles and privileges grant and revoke permission locks.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CSP505 : PRACTICAL - ORACLE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sample Queries
2	1	Simple Queries using DDL
3	1	Simple Queries using DML and DCL
4	2	SQL Aggregate Functions
5	2	SET Operations
6	2	Views and Snapshots
7	3	Multiple Tables and Nested Queries

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	PL/SQL Block
9	3	Function and Procedures
10	4	Subprograms and Packages
11	4	Triggers
12	4	Cursors
13	5	Designing Oracle Forms using Menus andButtons
14	5	Developing Oracle Reports.
15	5	Revision of all programs



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19SCS51 : PRACTICAL - PYTHON PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	1	Factorial of a given number
3	1	Introduction and installation of python.
4	2	Write a program to demonstrate different data types in Python.
5	2	Write a program to perform different Arithmetic Operations in Python.
6	2	Write a simple program to perform Looping in Python.
7	3	Write a program to demonstrate working with arrays (numpy)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	6. Write a program to demonstrate working with lists in python.
9	3	Write a program to demonstrate working with tuples in python.
10	4	Write a program to demonstrate working with dictionaries in python.
11	4	Write a program using split operator
12	4	Create a database for student mark sheet preparation.
13	5	Fibonacci series
14	5	numbers into words
15	5	revision of all programs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction and installation of GIMP
2	1	Demonstrate using Tool-box
3	1	Demonstrate using Tool-box
4	1	The menus and windows
5	1	The menus and windows
6	1	Performing Text Effects
7	1	Modify Color effects in images

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Drawing Shapes in GIMP
9	1	Cutting Images and removing background
11	1	Design a Business Card
12	1	Design a Business Card
13	1	Develop a Banner for College
14	1	Develop a Banner for College
15	1	Develop a Banner for College
10	1	Cutting Images and removing background

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple basic Program Based on PHP-Write a PHP program to add two numbers-Write a PHP program to subtract two numbers-Write a PHP program to find area of triangle-Write a PHP program to swap two numbers with and without using third variable.
2	1	To find sum of digits of a number just add all the digits.-Write a PHP program to check prime number-Write a PHP program to find Odd or Even-Write a PHP program to check prime number-Write a PHP program to print table of a number.
3	1	Write a PHP program to print factorial of a number.-Write a PHP program to check armstrong number-Write a PHP program to check palindrome number-Write a PHP program to reverse given number
4	2	Write a PHP program to tore multiple line text, special characters, and escape sequences in a single-Write a PHP program to multiple lines of text here between heredoc syntax.-Write a PHP program for implementing class and their variable-PHP Program base.
5	2	Write a PHP program to Indexed Array Write a PHP program to Associative Array Write a PHP program to Multidimensional Array
6	2	Write a PHP program for implementing Array Functions
8	3	Write a PHP program to implement PHP selection's Statement

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Write a PHP program to implement PHP Looping Statement- Write a PHP program to implement PHP Jump statement
10	4	Design simple web page using PHP
11	4	Write a PHP program to Handling Text Fields-Checkbox-Radio buttons-Password Controls
13	5	Write a PHP program for Database Operations Write a PHP program for Creating Login form
14	5	Write a PHP program for Student mark list creation
15	5	Write a PHP program for Electricity bill preparation.
7	3	Write a PHP program to creating PHP user Defined Functions- Function with arguments-Write a PHP program for call by value-Call by reference
12	4	Write a PHP program to Handling List boxes- Buttons – Hidden Control – File Upload.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19ECS65A : WEB GRAPHICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	HTML Coding – Basic Web Graphics -fundamentals of graphics
2	1	Web Page Design – Site building – Image Maps
3	1	Adding Multimedia to the Web-Revision
4	2	Introduction to photoshop– Image Basics – File Formats – GIF – JPEG – Color Palette – Layers – Creating new Images
5	2	Brushes – Grids – Scaling Images – Moving and Merging layer
6	2	Tool Palette – Screen Capturing – Gray – Using Style Palette – Animation.
7	3	Scanning images – adding text to the images – Designing icons

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating background images – Color models – Color Depths – Color Calibration –
9	3	Creating Gradients– Oil paint effect-revision
10	4	Creating Clipping- Animation with sound effect – audio or video –
11	4	Window’s Media Player ActiveX control – Embedding VRML in a web page –
12	4	Real player ActiveX control-revision-unit test
13	5	Creating website with a particular theme
14	5	Graphics – Animations and Interactions.
15	5	full revision-group discussion -class test



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CSP505 : PRACTICAL - ORACLE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Query for create new user
2	1	Query for create new table Insert query
3	1	Query for view and delete records
4	2	Query for update records and fields
5	2	Using ddl and dml
6	2	Data Aggregation
7	3	Importance Of Join

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sub Queries
9	4	Database Transactions
10	4	Design Of Schema Objects
11	4	Creating & Using Cursors
12	5	Understanding Exception Handling
13	5	Creation Of Stored Procedures
14	5	Creating & Using Functions
15	5	creating and Using Packages

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CSP506S : PRACTICAL - DOT NET TECHNOLOGY</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple program
2	1	Using button control
3	1	Using label and timer controls
4	2	Adding new forms
5	2	Using color chooser
6	2	using rich textbox and menus
7	3	windows application for login

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	windows application for database connections
9	4	using adrotator control
10	4	using login controls
11	4	web application to send request from one page to another
12	5	using connection - command and datareader objects
13	5	using connection- dataadapter and dataset objects
14	5	using grid -view
15	5	creating master pages

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Operating System, Definition of Operating system,
2	1	Kernel, Booting, types of Booting, Services of Operating System, Information Management , Process Management,, Memory management.
3	1	History of Operating System
4	2	Process Management: Context Switching, Different States of Process, Process State Transition Diagram, Process Control Block (PCB), Operation on Process – Levels of Scheduling
5	2	Short term Scheduling Policies: Round robin method - Scheduling based on priority (or priority method) - Priority class method - Heuristic scheduling. - Inter-process communication
6	2	Dead Lock - Dead Lock prerequisites - Dead Lock Strategies.
7	3	Memory Management: Real Memory Management, Virtual Memory Management

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Real Memory Management: Contiguous Real Memory Management, Single Contiguous , Fixed Partitioned, Variable Partitions,
9	3	Non- Contiguous Real Memory Management–Paging , Segmentation - Virtual Memory Management Systems.
10	4	GUI and Security: GUI
11	4	Components of GUI – Requirements of Windows based GUI – Security: Threats – Attacks – Worms – Virus
12	4	Design principles – Encryption: Methods of Encryption – Authentication: Authentication in Centralized Environment, Authentication in Distributed Environment.
13	5	Unix - Architecture of Unix
14	5	Various Modules and relationship of Unix and their relationship – Unix File System: Different Types of Files,
15	5	Important Unix Directories and Files – Basic commands in UNIX.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Program
2	2	Simple Programs HTML
3	3	String Functions
4	4	Arrays
5	5	Functions
6	6	Create a Home Page using PHP
7	7	Form creation using POST method

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Database Operations
9	9	Login form
10	10	Student mark list creation
11	11	Electricity bill preparation.
12	12	WEB DESIGN
13	13	MY SQL
14	14	MY ADMIN USING DATABASE
15	15	COLLEGE WEBSITE



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INTRODUCTION PROGRAM
2	2	BASIC OF GIMP
3	3	BASIC PROGRAM
4	4	Introduction and installation of GIMP
5	5	Demonstrate using Tool-box
6	6	The menus and windows
7	7	Layer and Layer masking

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Performing Text Effects
9	9	Modify Color effects in images
10	10	Drawing Shapes in GIMP
11	11	Cutting Images and removing background
12	12	Design a Business Card
13	13	Develop a Banner for College
14	14	Develop a LOGO for College
15	15	DEVELOP A LOGO FOR DEPARTMENT

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition of Operating System Booting: Before Booting and after Booting
2	1	Types of Booting Kernel
3	1	History of Operating System First Generation Second Generation
4	1	Third Generation Fourth Generation
5	1	Operating system functions: Information Management,
6	1	Process Management
7	1	Memory Management.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Dead Lock Dead Lock prerequisites
9	2	Dead Lock Strategies
10	3	Virtual Memory Management Systems
11	3	Virtual Memory Management Systems
12	5	Unix - Architecture of Unix: Various Modules and relationship of Unix and their relationship
13	5	Unix File System: Different Types of Files
14	5	Important Unix Directories and Files
15	5	Basic commands in UNIX.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS203S : PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Usage of OOP
2	1	Input and Output in C++
3	1	Streams.
4	2	Function in C++
5	2	Parameters passing in Functions
6	2	Values Return by functions
7	3	Operator Overloading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Type Conversion
9	3	Friend and Virtual functions
10	4	Virtual Base Class
11	4	Virtual Functions
12	4	Polymorphism
14	5	Updating a File
15	5	Command-line Arguments.
13	5	Classes for File Stream Operation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs based on C++
2	1	C++ programs based on command line arguments
3	1	C++ programs based on operators
4	2	C++ programs based on data types- C++ program to print Fibonacci series without using recursion and using recursion- C++ program to check prime number.
5	2	C++ program to print factorial of a number-C++ program to check Armstrong number.
6	2	C++ Program Using Call by value and call by reference in C++
7	3	C++ Program to Implementing class and Objects.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	C++ Program to Implementing Inline function
9	3	C++ Programs based on operators and Control Statements
10	4	C++ Programs based on Implementing Inheritance.
11	4	C++ program for implementing Single Level Inheritance Methods
12	4	C++ program for implementing for Multi Level Inheritance Example
13	5	C++ Programs Based on File Operations
14	5	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.
15	5	Conversion of infix to postfix using stacks operations.



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Program
2	1	Using class and objects
3	1	Inline function in cpp
4	2	Friend function
5	2	Function overloading
6	2	Operator overloading
7	3	Default constructor Parameterized constructor

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Copy constructor Multiple constructor
9	3	Single inheritance Multiple inheritance
10	4	Multilevel inheritance Hierarchical inheritance
11	4	Hybrid Inheritance
12	4	Stack operation using array
13	5	Queue operations using array
14	5	Tree traversal
15	5	File handling

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V.Ramalingam Pillai - Tamilan Idayam (Prarthanai) Pavalalararu Parunchithiranar - kanicharu
4	1	Kanadasan - Thavaru - Manipu
5	5	Ilakanam - Mathal Ezuthu, sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val Ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Thamizhanban - Vetrimgam Vairamuthu - Suthanthiram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendriu Kacithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathai - Orunal Kazinthathu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Palaverkala Ilakiyangal
2	1	Vallalar - Thiruvarkodai Thiruganasambanthar - Muthal Thirumozhi - Thirualavai
3	1	Pariyazvar - Thirupalandu Namazvar - Patham Thiruvazmozhi
4	1	Vannakalangiyapulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Urainadai - Thortamum Valarchiyum
6	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (1 - 6)
7	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (7 - 12)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (13 - 18)
12	4	Ilakiyavaralaru - Sidhar Ilakiyam Arimugam
13	2	Arunagirinather - Thirupugaz (Thiruchendur) Patinathar - Thiruthillai (1 - 5)
14	2	Patinathar - Thiruthillai (6 - 10) Sivavakiyar _ Padal 9.10.11
15	5	Ilakanam Yapilakanam - Ezuthu, Asai , Seer, Adi Vatruporul Vaipu Anni
9	4	Ilakiyavaralaru - Thortamum Valerchiyum
10	2	Palapadai Sokanatha Pulaver - Alager Killaividu Thoothu
11	2	Pagazhikoother - Thirucendur Murugan Pillaithamizh Kumaragurubarer - Madurai Meenatchiyammai Irataimanimalai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JOHNBOSCO A Dr	Academic Year	2022-2023
Department	Computer Science	Semester	1
Subject	LT101B : TAMIL - I	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS204S : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition of Data Structure,Types of Daya Structure
2	1	Definition Of Data types,Types,Comparison of Primitive and Composition Data type
3	1	Array-Definition, Operations
4	2	Stack-Definition, Constraints,Operations
5	2	Infix to postfix Conversion,Examples
6	2	Queue Definition,Constraints,Operations,Circular Queue
7	3	Singly linked list, Operations-insertion,Deletion

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Doubly linked lists-Operations
9	3	Polynomial Addition, Example,Using Array and Pointers
10	4	Circular list-Operations
11	4	Trees, Terminologies,Representation of binary tree
12	4	Forest to binary tree conversion
13	5	Graph, Definition, Terminologies
14	5	Types of Graphs,Representation of Graph
15	5	Shortest path Algorithm,DFS and BFS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic concepts of C++
2	1	Simple Programs to learn how to run
3	1	Area circle, Triangle
4	2	Class, Objects
5	2	Inheritance, Types, Problem
6	2	Constructor, Destructor programs
7	3	Function program

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Stack, infix to postfix conversion
9	3	Queue, Polynomial Addition
10	4	Revision
11	4	In order, Preorder, Postorder tree conversion
12	4	Sample Programs
13	5	Files, Open, Close, Edit, Modify sample programs
14	5	Employee salary Calculation
15	5	EB Bill preparation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CS101B : PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Syllabus introduction C language introduction Evolution of c language Basic Structure of c program Character set
2	1	Keywords Identifiers Data types Variables Constants
3	1	Operators Statements Expressions Library Functions
4	2	Input and output functions Simple programs
5	2	Simple if If else statement Else if statement Nested statements Switch statement
6	2	for loop while loop do while loop goto statement break and continue statements
7	3	array types of array

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	functions user defined function function prototypes
9	3	passing array to a function programs using functions
12	4	difference between structure and union difference between array and structure
13	5	pointers
14	5	passing pointers to a functions file introduction operations on file
15	5	file functions for opening and closing file input and output functions example program
10	4	structure structure creation accessing structure elements
11	4	union union creation accessing union elements



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CSP101B : PRACTICAL - PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic programs
2	1	Program using different types of operator
3	1	Programs using library functions
4	2	Programs using input and output functions
5	2	Programs using branching statements
6	2	programs using looping structures
7	3	programs using arrays

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	programs using user defined functions
9	3	programs for passing array to a function
10	4	programs using structure
11	4	programs using union
12	5	programs using pointers
13	5	programs for passing pointer to a function
14	5	programs using file functions
15	5	programs to implement recursion

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS203S : PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to OOP's Advantages of OOP's Applications of OOP's
2	1	Key components of OOP's CPP introduction Basic structure of CPP program
3	1	input output stream classes Simple programs in CPP
4	2	Unformatted input and output statements Tokens
5	2	Control structures Branching and looping Arrays and its types
6	2	Function Function prototype Inline function
7	3	class object Simple program using class and object

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Constructor Default Constructor Parameterized constructor
9	3	Copy constructor Multiple constructor Destructor
10	4	Inheritance Access specifiers Single inheritance Multiple inheritance
11	4	Multilevel inheritance Hierarchical inheritance Hybrid inheritance
12	4	Virtual Function Virtual base class Friend function
14	5	Output operation on files End of file detection
15	5	File operations Command line arguments
13	5	Introduction to file File pointer creation File input operations

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	2	CPP programs using class and objects
3	3	CPP program using Inline Functions
4	4	CPP program using friend function
5	5	CPP program using default and parameterized constructors
6	6	CPP program using copy and multiple constructors
7	7	CPP program using single inheritance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	CPP program using multiple inheritance
9	9	CPP program using multilevel inheritance
10	10	CPP program using hierarchical inheritance
11	11	CPP program using hybrid inheritance
12	12	CPP program to perform push and pop operations of using stack
13	13	CPP program to perform insertion and deletion operations of queue using array
14	14	CPP program to perform infix to postfix conversion
15	15	CPP program to perform tree traversals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Computer Science	Semester	1
Subject	LT101B : TAMIL - I	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Computer Science	Semester	2
Subject	21LT02 : TAMIL - II	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. PALLAVAR KAALAM - ILLAKIYANGAL
2	1	1.1. VALLALAR - THIRUVARUTKODAI ( 4798, 4799, 4802) 1.2. THIRUNANASAMPANTHAR - MUDAL THIRUMURAI - THIRU AALAVAYUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (1 - 6)
7	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (7 - 11)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BAKKTHI ILLAKKIYANGAL VALLALAR - THIRUVARUL KODAI 4798, 4799, 4802 THIRUGHNANA SAMBANDER - MUTHAL THIRUMURAI, THIRUAALAVAYUM-NATTAPPADAI 65,66,67
2	1	PEREYAZHVAR - THIRUPPALLANDU 1-10 NAMMAZHVAR , THIRUVAAIMOZHI 10, 1-5
3	1	VANNAKALANGIYAPPULAVAR - KUTHPPUNAAYAGA PURANAM, THEENVILAKKAM 172, 1149 VETHANAYAGAM PILLAI- NEETHI NOOL 421, 89, 90
4	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 1-4 THALAPPUGAL
5	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 5-8 THALAPPUGAL
6	4	ILLAKKIYAVARALARU PALLAVER KAALUM THOTTRAMUM VALERCHIYUM
7	4	ILLAKKIYA VARALARU- URAINADAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	SITRELAKKIYANGAL , SITHER ILAKKIYANGAL PALAPPATTADAI SOKKANATHAP PULAVER - AZHAGER KILLAI VIDU THOOTHU PAGAZHIKKOOTHER - THIRUSENTHOOR MURUGAN PILLAITHAMUZH
9	2	KUMARAKURUBARAER - MADURAI MEENATCHIYAMMAI IRATTAI MANIMAALAI KATTALAI KALITHURAIYIL 2 PAADALGAL ARUNAGIRENATHER THIRUPPUGAZH- THIRUSENTHOOR
10	2	PATTINATHAR -THIRUTHILLAI 1-10 PAADALGAL
11	2	SIVAVAAKKIYAR 9,10,11 PAADALGAL
12	4	ILLAKKIYA VARALARIL NAAYAKKER KAALAM THOTTRAMUM VALARCHIYUM
13	4	SITHER ILLAKKIYAM THOTTRAMUM VALARCHIYUM
14	5	ILLAKKANAM YAAPPILAKKANAM -EZHUTHU, ASAI, SEER, ADI-URUPPUGAL
15	5	ILLAKKANAM VETTRUPPORUL VAIPPANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sound - consonants 1.Meeting people, exchanging greetings & taking leave 2.Introducing people to others
2	1	Prose: Forgetting- Robert Lynd 1.Letter - writing - informal letters 2.The sentence 3.Parts of speech
3	2	Speech sounds - pure vowels 1.Giving personal information 2.Talking about people
4	2	Poem: Mending Wall - Robert Frost 1.Letter - writing- formal letters 2.Nouns - Classes and Gender 3.Nouns - Number and case 4.Adjectives 5.Comparison of Adjectives
5	3	Diphthongs 1.Taking and leaving messages 2.Making enquiries on the phone
6	3	Poem : Time and Love - William Shakespeare 1.Dialogue writing 2.Articles 3.Pronouns- personal, reflexive and emphatic 4.Pronouns - Demonstrative, Indefinite, interrogative, Distributive and Reciprocal 5.Pronouns- Relative
8	4	Phonetic transcription ( words ) Answering the telephone and asking for someone

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	1.Prose : Mother Teresa - John Frazer 2. One - Act Play: The Best Laid Plans - Farrel Mitchell
10	4	1.Reading comprehension 2.Verbs - Transitive and Intransitive 3.Verbs - Active and Passive Voices
11	5	Voiced and voiceless sounds Dealing with a wrong number
12	5	Short story : The Selfish Giant - Oscar Wilde
13	5	1.Verbs - Mood and Tense 2.Concord or Agreement of the Verbs with the subject
7	0	I CIA EXAMINATIONS
14	0	II CIA EXAMINATIONS
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
7	3	I CIA EXAMINATIONS
1	1	Triphthongs Making Requests Thanking Responding to Someone How to be a Doctor
2	1	Precise Writing Non Finite verbs Strong and weak verbs The Auxiliaries
14	5	II CIA EXAMINATIONS
15	5	Revision
3	2	Transcription Inviting and accepting invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Article

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	3	The Relationship between spelling and sound Paying Compliments
8	4	Sentence Transcription Describing Daily Routines
6	3	Asking Permission My Visions for India
9	4	If - Poem The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for directions and giving directions
12	5	Kiran Bedi
13	5	Use of wrong tenses Use of prefixes and suffixes



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>PEPS01A : PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	LISTENING LISTENING TO AUDIO TEXTS AND ANSWERING QUESTIONS SPEAKING PAIR WORK AND SMALL GROUP WORK
2	1	COMPREHENSION PASSAGES-DIFFERENTIATE BETWEEN FACTS AND OPINIONS WRITING DEVELOPING A STORY WITH PICTURES
3	2	DESCRIPTION LISTENING-LISTENING TO PROCESS DESCRIPTION SPEAKING- ROLE PLAY
4	2	READING- SKIMMING/SCANNING WRITING-PROCESS DESCRIPTION VOCABULARY- REGISTER SPECIFIC
5	3	NEGOTIATION STRATEGIES LISTENING-LISTENING TO INTERVIEWS OF SPECIALISTS SPEAKING- BRAINSTORMING SMALL GROUP DISCUSSION
6	3	READING- READING LONGER TEXTS WRITING-ESSAY WRITING VOCABULARY- REGISTER SPECIFIC
8	3	INTERNAL ASSESSMENT-I

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
7	3	REVISION
9	4	PRESENTATION SKILLS LISTENING-LISTENING TO LECTURES SPEAKING- SHORT TALKS
14	5	INTERNAL ASSESSMENT-II
10	4	WRITING-WRITING RECOMMENDATIONS INTERPRETING VISUAL INPUTS VOCABULARY- REGISTER SPECIFIC
11	5	CRITICAL THINKING SKILLS LISTENING- LISTENING COMPREHENSION LISTENING FOR INFORMATION SPEAKING- MAKING PRESENTATIONS
12	5	READING READING COMPREHENSION NOTE MAKING COMPREHENSION ON PROFESSIONAL COMPETENCE
13	5	WRITING PROBLEM SOLUTION ESSAY CREATIVE WRITING SUMMARY WRITING VOCABULARY- REGISTER SPECIFIC
15	5	REVISION OF ALL TOPICS DISCUSSED

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs Based on HTML Tags
2	1	HTML programs on Lists & Tables
3	1	HTML programs on Frames and Forms
4	2	Simple programs on Java Script
6	2	Java Script programs on dialog Boxes
7	3	Java Script programs on object
8	3	Java Script programs on Built in Objects

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Java Script programs on user defined Objects
10	4	Programs Based on CSS
11	4	Programs Based on CSS Properties-Font
12	4	Programs Based on CSS Properties-Text
13	5	Programs Based on XML
14	5	Programs Based on XML Schema
15	5	Programs Based on XML parsers
5	2	Simple programs on Java Script using operators



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthava Kap[iyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS407 : INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	HTML Introduction to HTML List
2	1	Creating Table Linking Document
3	1	Frames Graphics to HTML Doc.
4	2	JavaScript Introduction JAVA Script Syntax Variable
5	2	Operator and Expressions Looping Constructor
6	2	Function Dialog Box.
7	3	JSSS DOM Understanding objects in HTML Browser objects

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	JavaScript forms: Form objects Built-in objects (String, Math, Date)
9	3	User defined objects.
10	4	DHTML Cascading Style Sheets
11	4	Class-Using Span Tag-
12	4	External style sheets
13	5	XML: Basic XML Document Type Definition
14	5	XML Schema DOM and Presenting XML XML Parsers and Validation
15	5	XSL and XSLT Transformation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple HTML programs using basic tags
2	1	Create a static web page that defines all text formatting tags of HTML in tabular format
3	1	Create a static webpage using table tags of HTML
4	1	Create a static webpage displaying the class timetable using table tags of HTML
5	1	Create a webpage using ordered list tags of HTML.
6	1	Create a webpage using unordered list tags of HTML.
7	1	Apply the style sheet on Webpage

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Create a webpage using FORMS.
9	1	Script code for n numbers of Fibonacci series.
10	1	Script code for employee salary calculation.
11	1	Script code for simple Calculator.
12	1	Script Code using Math Functions - Find Maximum and Minimum
13	1	Script Code using Math Functions - Find cos and tan
14	1	Script Code using String Functions - ToLowercase()
15	1	Script Code using String Functions - ToUppercase()

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CS305 : JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Fundamentals of Java Language- Introduction to Java – Features of Java-Revision Test
2	1	Data Types – Arrays - Control Statements-Revision Test
3	1	Classes – Objects—Overloading method-Revision Test
4	2	Packages – Importing Packages – Revision Test
5	2	Interfaces-Example Code-Revision Test
6	2	Exception Handling-Examples-Revision Test
7	3	Thread :Life Cycle of Thread – Multithreading-Revision Test

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Applets :Applet life cycle – creating simple applets- Loading and displaying images on applet-Revision Test
9	3	applets Examples- working with graphics-Revision Test
10	4	AWT :AWT controls –windows Fundamentals - layout managers-Revision Test
11	4	JDBC: JDBC Architecture – Connecting to a Database (MS Access) – Revision Test
12	4	SQL commands-select, insert, delete, update-Revision Test
13	5	NETWORKING: Networking Basics-URL- Inet Address – TCP/IP Sockets -Revision Test
14	5	Networking– TCP/IP Sockets .RMI :Introduction to RMI-Revision Test
15	5	RMI architecture - Example using RMI-Revision Test



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CSP303 : PRACTICAL - JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Java Programs
2	1	Basic Java Programs
3	1	Finding area and Perimeter of a circle. Use Buffered Reader class-Logic programs
4	2	Implementing and importing packages.
5	2	Implementing Interfaces-Arithmetic Manipulations-More Examples using Package and interface
6	2	Exception Handling
7	3	I-CIA practical Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multithreading-Examples of Thread code
9	3	Applet basic codes-Loading image onto applet
10	4	Implement an application for Arithmetic operation using AWT
11	4	Create a database for storing and manipulating student mark list using AWT.
12	4	program to send in two values to the server program and get back the result calculated using RMI
13	5	Incorporating circle symbol onto Bean box.
14	5	II-CIA Exam
15	5	Revision of all programs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS407 : INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to HTML – List -basic tags-formatting tags
2	1	Creating Table – Linking Document Frames -frame code
3	1	Graphics to HTML Doc-revision
4	2	Introduction – Advantage of JAVA Script
5	2	JAVA Script Syntax – Data type – Variable – Array – array objects
6	2	Operator and Expressions – Looping Constructor – Function – Dialog Box.
7	3	JSSS DOM-understanding objects in HTML

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Browser objects-JavaScript forms: -Form objects
9	3	built-in objects (String, Math, Date)-User defined objects.
10	4	Cascading Style Sheets-Class-Using Span Tag-
11	4	External style sheets-Using div tag-format tag objects
12	4	Layers-dom objects-method implementation-revision
13	5	XML: Basic XML- Document Type Definition
14	5	XML Schema DOM and Presenting XML, XML Parsers
15	5	XML Validation, XSL and XSLT Transformation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS408 : COMPUTER ARCHITECTURE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Components of CPU,General Register Organization,Control Word
2	1	Stack Organization-Memory Stack,Register Stack,RPN,
3	1	Instruction Format,Addressing Modes,Data Transfer and Manipulation Instructions
4	2	Types of Intruputs,Super Computer,Pipeline-Introduction,Functional units,Data Stream and it's Classifications
5	2	Arithmetic Pipeline,Space Time Diagram, 4 Segment Pipeline,instruction Pipeline
6	2	Conflicts of pipeline,RISC Pipeline,Vector Processing,Array Processing
7	3	Addition and Subtraction of Signed Magnitude data, 2's Complement Addition and Su tra tion

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Multiplication, Booth Multiplication Algorithm.
9	3	Floating point addition and Subtraction, Multiplication and Division Algorithm
10	4	Asynchronous and Synchronous data transfer, Interfaces
11	4	Modes of Transfer-.Memory to I/O and I/o toI /o ,Example for Interface
12	4	Direct Memory Access.
13	5	Memory management-Hierarchy,Memory mapping
14	5	Cach,Associative memory, Auxiliary memory
15	5	Various types of mapping,Virtual memory,Paging,Segmentation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	HTML Introduction,Internet Explorer Execution
2	1	Coding in notepad,Save and Execute HTML script
3	1	Create webpage,Text Formatting Tags,
4	2	Table Tags,List Tag
5	2	Practical Example Programs based on Tables and lists
6	2	In order list Program
7	3	Applying style sheet in web page, Forms

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Crate web page using Forms, Bio data creation
9	3	Script coding,Fibonacci Series
10	4	Employee Salary Calculation,Simple Calculator
11	4	Revision
12	4	Fiction,Apply Math Function
13	5	Script code for String Functions
15	5	Revision
14	5	Sample practical programs



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple HTML programs using basic tags
3	3	Create a static webpage using table tags of HTML
4	4	Create a static webpage displaying the class timetable using table tags of HTML
5	5	Create a webpage using ordered list tags of HTML
2	2	Create a static web page that defines all text formatting tags of HTML in tabular
6	6	Create a webpage using unordered list tags of HTML.
7	7	Apply the style sheet on Webpage

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Create a webpage using FORMS
9	9	Script code for n numbers of Fibonacci series.
10	10	Script code for employee salary calculation.
11	11	Script code for simple Calculator.
12	12	Script Code using Math Functions - Find Maximum and Minimum
13	13	Script Code using Math Functions - Find cos and tan
14	14	Script Code using String Functions - ToLowercase()
15	15	Script Code using String Functions - ToUppercase()

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BHUVANESWARI G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>NBMBP401 : MODERN BANKING PRACTICES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Introduction to Banker and Customer – Definition –
2	3	Types of bankers
3	3	Types of customers
4	3	Accounts of Individuals: Minor, Illiterate person, Joint Account.
5	3	Revision
6	3	Seminar
12	5	Real Time Gross Settlement (RTGS) - Seminar

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
13	5	Immediate Payment Service (IMPS).
14	5	Seminar
15	5	Revision
7	5	ATMs – Internet banking
8	5	Mobile banking – Debit cards
9	5	Credit Cards & Smart Cards
10	5	Electronic Payment Systems (EPS) – Magnetic Ink Character Recognition (MICR)
11	5	Electronic Clearing System (ECS) – Electronic Fund Transfer (EFT) – National Electronic Fund Transfer (NEFT)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	IMPERUM KAAPIYANGAL - VILAKKAM
2	3	IYNGHCHIRU KAAPIYANGAL - VILAKKAM
3	3	PIRA KAAPIYANGAL , RETTAIKKAPIYANGAL - VILAKKAM
4	1	SILAPPATHIGARAM - KUNDRAK KURAVAI KAATHAI
5	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
6	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
7	2	SEEVAGA CHINTHAMANI - EMANGATHA NAATTU VALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	PANBALAI VANOLI NIGAZHCHI THOGUPPU VADIKAIYALER SEVAI MAIYA ALUVALER SUTTRULA VAZHICKATTI KADETHANGAL, POTHUKATTURAIGAL
9	5	SUTTRULA VAZHICKATTI KADETHANGAL, POTHUKATTURAIGAL
10	2	KAMBARAMAYANAM - KAIKEYE SOOZHCHI PADALAM
11	4	KIRUSTHUVA KAAPİYANGAL
12	4	ISLAMIYA KAAPİYANGAL
13	3	PEREYAPURANAM - ILAIYANKUDI MARANAYANAR PURANAM
14	3	THEMBAVANI - SETHAIYON VETTRI PADALAM
15	3	SEERAPURANAM - GAMAP PADALAM- NUBUVATHUKKANDAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SANGA ILLKKIYAM - ETTUTHOGAI NOOLGALIL..., PURANANOORU 184, 204 AGANANOORU 219, 351
2	1	KURUNTHOGAI 20, 210 NATTRENAI 21,86
3	1	IYNGURUNOORU ANNAI VAZHI PATHU 1-5 PADALGAL KALITHOGAIYIL KURUNGHICALI 5 PADALGAL
4	4	ILLKKIYA VARALARU- ETTUTHOGAI NOOLGAL PATHINENKZHKKANAKIL NEETHI NOOLGAL
5	3	THIRUKKURALIL 3 ATHIGARANGAL ARATHUPPALIL VIRUNTHOMBAL PORUTPPALIL KALLAMAI INNBATHUPPALIL KURIPPARETHAL
6	1	ETTUTHOGAYIL PAREPADAL VAIYAI PADAL-10, 71- 131VAREGAL
7	4	ILLKKIYA VARALARU- PATHINENKZHKKANAKIL NEETHI NOOLGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPATTU NOOLGALIL..., SIRUPANNATTUPADAI 111-145 ,235-261 VAREGAL
9	2	MULLAIPPATTU - 26-79 VAREGAL NAALLIYAKKODAN SIRAPPU
10	5	MOZHITHIRAN PATHIREGAIGALIL SEITHI VARAITHAL SURUKKI VARAITHAL
11	2	MADURAI KAANGHI 238- 270 VAREGAL THAMIZH NILATHIL AMAINTHA 5 NILAPPAGUTHIGALIN PANBUM VALAMUM
12	2	PATTINAPPALAIYIL 1-59 VAREGAL KAAVIREPOOMPATTINATHIN SIRAPPUGAL
13	5	MOZHITHIRANIL..., NEERKKAANAL
14	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL
15	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL



## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering
2	1	Introduction a guest to the audience Thanking the gathering & organization
3	1	One act play Refund - Fritz karinthy
4	2	Quit india movement
5	2	Tryst with destiny -jawarhalal Nehru
6	2	One Act play The Bear - Anton Chekhov
7	2	Spotting error

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Gettysburg address - Abraham Lincoln
9	3	I have dream - Martin Luther King
10	4	The hour of truth
11	4	Email writing Inaugural address Prepared to die
12	4	Presentation skills
13	4	Auto biography sorrows of childhood Resume Writing
14	5	Some useful expresion Speech writing
15	5	Marie Curie - biography Sarojini naidu-biography Minutes of writing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>ASCP401T : ALLIED PRACTICAL - STATISTICAL METHODS FOR COMPUTER APPLICATIONS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Karl Pearson's Correlation Coefficients. Sperman's Rank Correlations.
2	3	Spearman's Rank Correlation Repeated rank. Grouped rank.
3	3	Regression Equations.
4	4	Fitting of Binomial Distribution.
5	4	Fitting of Poisson Distribution.
6	4	Fitting of Normal Distribution.

7	4	Test for single population mean. Test for Difference Population Mean.
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<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Paired T Test. Test for Correlation Coefficients.
9	4	Test for single Population variance. Test for Difference Population variance.
10	4	chi-square test - Goodness of fit
11	4	Large sample tests: Based of Mean and Proportions.
12	4	Chi-Square distribution: Test for independence of attributes.
13	5	Complete Randomized Design
14	5	Randomized Block Design
15	5	Latin Square Design

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19ASCS31 : Statistical Methods For Computer Applications-I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation,
6	2	Standard Deviation and Coefficient of Variation.
7	3	Measures of Skewness: Karl Pearson's, Bowley's Coefficient of Skewness.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Kelly's Coefficient of Skewness.
9	3	Kurtosis based on Moments.
10	4	Sample Space – events – definition of Probability
11	4	Addition and Multiplications theorems – simple problems.
12	4	Conditional probability – Baye's theorem (proof only).
13	5	Concept of Random Variable – Probability mass function, Probability density function
14	5	Distribution function.
15	5	Mathematical Expectation: Properties of expectations, Chebychev's inequality (only theorem).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19ASCS42 : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Correlation: Scatter diagram, Karl Pearson's Correlation Coefficients.
2	1	Spearman's rank and Concurrent deviation methods.
3	1	Regression Analysis: Simple regression equations.
4	2	Standard distributions: Binomial (mean and variance).
5	2	Poisson (mean and variance) and fitting of these distributions.
6	2	Normal distributions (characteristics and area problems).
7	3	Concept of Sampling distributions–Standard Error–Tests of Significance based on t, Chi –Square.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	F distributions with respect of Mean, Variance and Correlation coefficient.
9	3	Chi – Square test for independence of attributes. Goodness of fit. Large sample test based on Mean and Proportions.
10	4	Analysis of Variance: One way and two way classifications.
11	4	Basic principles of design of experiments: Randomization, Replication and Local Control – CRD,.
12	4	RBD and LSD.
13	5	Introduction to MS- Excel and its usage in data analysis
14	5	Representations of statistical data by using diagrams (column diagram, bar diagram, line diagram, scatter diagram and pie-diagram).
15	5	Excel functions regarding descriptive statistics (average, median, mode, STDEV, VAR, skewness and kurtosis functions)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock Interviews/Actual Interviews Facing an interview Tele - Interviews
2	1	Julius Caesar- Funeral Oration - William Shakespeare Words often confused Receiving visitors
3	2	Seminar skills Idioms and phrases The use of Graphics
4	2	Count of Monte Cristo- Alexander Dumas
5	3	Macbeth - William Shakespeare Homonyms and similar words Tele - Conference
6	3	Henry IV- William Shakespeare Handling customers or clients
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making small talk and telling stories
9	4	As you like it- William Shakespeare ( play)
10	5	Negotiations Making appointments
11	5	Hamlet - William Shakespeare ( play)
12	5	The Count of Monte Cristo- Alexander Dumas ( chapter 31- 40) The count of Monte Cristo- Alexander Dumas ( chapter 41-49)
14	5	Revision
15	5	II CIA
13	4	Writing reviews of Books Cancelling and rescheduling appointments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Computer Science	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs based on PHP- PHP program based on operators - Flow Control.
2	1	PHP program to print sum of digits- PHP program to check prime number-PHP program to reverse given number.
3	1	PHP program to print table of a number-PHP program to print factorial of a number-PHP program to check palindrome number-
4	2	PHP programs based on String Functions
5	2	PHP programs based on Array
6	2	PHP programs on Array Functions
7	3	PHP programs on Functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	PHP programs on Selection Statements
9	3	PHP programs on Looping Statements
10	4	Create a Home Page using PHP
11	4	Create a Home Page using Controls
12	4	Login form
13	5	Creating a MYSQL Database in PHP
14	5	Creating a MYSQL Database in PHP using SQL commands
15	5	Student mark list creation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS614 : OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Internal Data types
2	1	Operators
3	1	Flow Control
4	2	Arrays with Loops
5	2	PHP Array Functions
6	2	Sorting Arrays.
7	3	control structures

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Go to statement
9	3	comma operator.
10	4	Buttons
11	4	Hidden Control
12	4	File Upload.
13	5	Creating a MYSQL Database
14	5	Accessing the Databases
15	5	Creating a New Database-Sorting your Data

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction in php
2	1	Php simple program
3	1	String functions
4	2	Math functions
5	2	Array sorting
6	2	Functions in factorial
7	3	Functions in Fibonacci

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Home page design
9	3	Form creation using post method
10	4	Database connection
11	4	Database connection
12	4	Database connection
13	5	Login program
14	5	Mark sheet processing
15	5	Electricity bill

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Memory Management: Real Memory Management, Virtual Memory Management
2	3	Real Memory Management: Contiguous Real Memory Management, Single Contiguous , Fixed Partitioned, Variable Partitions, Non- Contiguous Real Memory Management
3	3	Paging , Segmentation - Virtual Memory Management Systems.
4	2	Process Management: Context Switching, Different States of Process, Process State Transition Diagram
5	2	Process Control Block (PCB), Operation on Process – Levels of Scheduling – Short term Scheduling Policies: Round robin method -
6	2	Scheduling based on priority (or priority method) - Priority class method - Heuristic scheduling. - Inter-process communication
7	3	CLASS TEST



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	CLASS TEST
9	2	REVISION(SEMESTER QUESTIONS)
10	3	REVISION(SEMESTER QUESTIONS)
11	4	GUI – Components of GUI – Requirements of Windows based GUI
12	4	Security: Threats – Attacks – Worms – Virus - Design principles
13	4	Encryption: Methods of Encryption
14	4	Authentication: Authentication in Centralized Environment, Authentication in Distributed Environment.
15	4	REVISION (SEMESTER QUESTIONS) & CLASS TEST

## INTERNAL QUALITY ASSURANCE CELL

### St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

#### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19ECS52A : DATA COMMUNICATIONS AND NET WORK</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Networks: Introduction about networking- Protocols and standard – line configuration - types of connections - line configuration - point to point - multipoint. Unit test
2	1	topology – types of topology - bus topology - ring topology - mesh topology - etc.. transmission mode – types of transmission - simplex - Half duplex - Full duplex.
3	1	categories of networks – LAN networks - MAN networks - WAN networks - inter networks and networks. Unit test
4	2	The OSI Model: Functions of the layers – Introduction about OSI model - explain about seven layers - Physical - Data - Network - Session - Application - Session - Application Layers - TCP/IP protocol suite.
5	2	signals – analog and digital signal – periodic and a periodic signal – analog signals – digital signal – data transmission - serial and parallel transmission - synchronous and asynchronous transmission.
6	2	data terminal equipment – data circuit terminals equipment – modems. Unit test.
7	3	Transmission Media: Guided media – unguided media – transmission impairments – media comparison. Multiplexing –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	FDM – TDM – WDM. Error detection and correction – types of errors–detection – vertical redundancy check (VRC)
9	3	– longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction.
10	4	Switching: Introduction about switching - types of switching - Circuit switching – packet switching - SVC - PVC
11	4	message switching – types of networking and internetworking devices - networking and internetworking devices - bridges and repeaters - routers and gateways.
12	4	repeaters – bridges - types of bridges – routers – gateways. unit test.
13	5	Routing algorithms: Introduction about routing algorithm - line routing algorithm - link state routing algorithm - Distance vector routing algorithm.
14	5	link state routing - types of link state routing - data link control. Unit test
15	5	line discipline – flow control – types of flow control - error control. Discuss about previous question papers. conducting all unit test.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS614 : OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creating your Development Environment –
2	1	– Mixing HTML and PHP
3	1	class test
4	2	– Command -
5	2	Line PHP –
6	2	Working with Variables –
7	3	seminar

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating Constants –
9	3	Understanding PHP's Internal Data types –
10	4	Operators and Flow Control.
11	4	class test
12	4	Revision
13	5	READING DATA IN WEB PAGES: Setting up web pages to communication with PHP- Handling Text Fields
14	5	Handling Text Fields
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHNSON DURAI A.R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19ECS51A : SOFTWARE ENGINEERING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Software Engineering and Models: Introduction -Characteristics of Software-Software Myths
2	1	Process Models: The Waterfall Model- Incremental Process Models: The Incremental Model, The RAD Model
3	1	– Evolutionary Process Models: Prototyping, The Spiral Model, The Concurrent Development Model.
4	2	Requirement Engineering: Requirement Engineering Tasks: Inception, Elicitation, Elaboration, Negotiation, Specification, Validation, Requirement management
5	2	Initiating the Requirements Engineering Process: Identifying the stake-holder, Recognizing the multiple view point, Working towards collaboration, Asking the first question
6	2	Eliciting Requirements: Collaborative requirement gathering- Quality function deployment (QFD)- Users scenarios- Elicitations work product.
7	3	Building Analysis Model: Requirement Analysis: Overall objectives and Philosophy, Analysis Rule of thumbs

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Domain Analysis - Data Modeling: Data Objects, Data Attributes, Relationships, Cardinality and Modality
9	3	Flow Oriented Modeling – Class Based Modeling Creating a Behavioral Model.
10	4	Testing: Introduction about testing: Testing ,Generic characteristics of testing, Verification and Validation - Test Strategies for Conventional Software: Unit Testing, Integration Testing: Top-down Integration, Bottom-up Integration
11	4	Validation Testing – System Testing –White Box Testing – Basic Path testing : Flow Graph Notation, Independent paths, Cyclomatic Complexity, Graph matrices method – Control Structure
12	4	Black Box Testing: Graph-Based Testing Methods , Equivalence Partitioning, Boundary Value Analysis, Orthogonal Array Testing.
13	5	Project Management: The Management Spectrum- The People: The Players, Team Leaders, he Software Team- Coordination and Communication Issues
14	5	The Product: Software Scope, Problem Decomposition - The Process: Melding the Product and the Process, Process Decomposition
15	5	The Project: Signs of Project Failure, Five-part commonsense approach to software projects - Formal Technical Reviews(FTR).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition purpose of database systems data abstraction
2	1	data models instances and schemes
3	1	data independence database manager database administrator database users overall system structure
4	2	Entity Relationship Model: Entities and entity sets Relationships and Relationship Sets attributes
5	2	mapping constraints keys E-R diagram reducing E-R diagrams to tables generalization and aggregation
6	3	Relational Model: the relational algebra
7	3	the tuple relational calculus



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	the domain relational calculus.
9	4	Normalization: First Normal Form Second Normal Form
10	4	Third Normal Form Boyce – Codd normal form Fourth Normal Form.
11	4	DDL,DML,DCL operations integrity constraints string functions
12	5	number functions data arithmetic selecting distinct values
13	5	working with null values pseudo columns
14	5	grouping and ordering data subqueries joins union ,intersect & minus indexes
15	5	clusters views sequences synonym users, roles and privileges grant and revoke permission locks.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CSP505 : PRACTICAL - ORACLE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sample Queries
2	1	Simple Queries using DDL
3	1	Simple Queries using DML and DCL
4	2	SQL Aggregate Functions
5	2	SET Operations
6	2	Views and Snapshots
7	3	Multiple Tables and Nested Queries

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	PL/SQL Block
9	3	Function and Procedures
10	4	Subprograms and Packages
11	4	Triggers
12	4	Cursors
13	5	Designing Oracle Forms using Menus andButtons
14	5	Developing Oracle Reports.
15	5	Revision of all programs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CSP505 : PRACTICAL - ORACLE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Table Creation
2	1	Queries in table
3	1	Relating Tables using Queries
4	2	SQL Aggregate Functions
5	2	SET Operations
6	2	Views and Snapshots -Multiple Tables and Nested Queries
7	3	PL/SQL Block

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Function and Procedures
9	3	Subprograms and Packages
10	4	Triggers
11	4	Cursors
12	4	Cursors
13	5	Simple Queries using DDL, DML and DCL
14	5	Designing Oracle Forms using Menus & Buttons
15	5	Developing Oracle Reports.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19ECS51A : SOFTWARE ENGINEERING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Building Analysis Model: Requirement Analysis -Overall Objectives and philosophy-Analysis Rules of Thumb-Domain Analysis
2	3	Data Modeling
3	3	Flow Oriented Modeling-DFD-CFD
4	3	Class Based Modeling
5	3	Creating a Behavioral Model
6	5	Management Spectrum-People-The Players
7	5	Team Leaders

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	The Product-Software Scope
9	5	Problem Decomposition
10	5	The Process-Melding the Product and the Process
11	5	Process Decomposition
12	5	The Project-Signs of Project failure
13	5	Formal Technical Review -The Review Meeting
14	5	Review Reporting and Record Keeping
15	5	Review Guidelines-over all Revision of the units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>ECS66B : BIG DATA ANALYTICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Big Data Analytics-Big Data vs Data Warehouse-Hadoop Environment Big Data Analytics Hadoop Community Package
2	2	Activities performed on Big Data-Store –Process-Access-introduction to Classification of analytics
3	2	Types of data analytics-Descriptive analytics- Predictive analytics-Prescriptive analytics Diagnostic analytics
4	2	Challenges of Big Data Analytics-Terminologies used in Big Data Environments-As-a-service infrastructure:-Data science-Data mining-Hadoop-Predictive modelling-MapReduce-NoSQL-R Programming-Real-time-Spark-Structured Data-Unstructured Data-Visualization
5	2	Analytics Tools-. R-Programming-Apache Spark-Plotly-. Lumify-.IBM SPSS Modeler-.MongoDB-Zoho Analytics-Tableau-Azure Databricks-. Splunk
6	3	What is Hadoop-Hadoop Overview-Hadoop Architecture
7	3	How Does Hadoop Work?-Components of Hadoop-Hadoop HDFS -Hadoop MapReduce-Hadoop YARN



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Advantages of HADOOP: Varied Data Sources-Cost-effective-Performance-Fault-Tolerant-Highly Available-Low Network Traffic-High Throughput
9	3	Advantages of HADOOP :Open Source-Scalable-Ease of use-Compatibility-. Multiple Languages Supported
10	3	Limitations of Hadoop-Issue With Small Files-. Vulnerable By Nature-Processing Overhead-Supports Only Batch Processing-. Iterative Processing-Security
11	5	Integrating Data Sources-Strim for Real-Time
12	5	Data Integration makes streaming data unique
13	5	Streaming data and complex event processing in the real world
14	5	Streaming data in action
15	5	Data Streams and Complex Event Processing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19ECS65A : WEB GRAPHICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	HTML Coding – Basic Web Graphics -fundamentals of graphics
2	1	Web Page Design – Site building – Image Maps
3	1	Adding Multimedia to the Web-Revision
4	2	Introduction to photoshop– Image Basics – File Formats – GIF – JPEG – Color Palette – Layers – Creating new Images
5	2	Brushes – Grids – Scaling Images – Moving and Merging layer
6	2	Tool Palette – Screen Capturing – Gray – Using Style Palette – Animation.
7	3	Scanning images – adding text to the images – Designing icons

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating background images – Color models – Color Depths – Color Calibration –
9	3	Creating Gradients– Oil paint effect-revision
10	4	Creating Clipping- Animation with sound effect – audio or video –
11	4	Window’s Media Player ActiveX control – Embedding VRML in a web page –
12	4	Real player ActiveX control-revision-unit test
13	5	Creating website with a particular theme
14	5	Graphics – Animations and Interactions.
15	5	full revision-group discussion -class test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>JCS601 : MINI PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Abstract and Project Topics
2	1	Table of Content,Certificate Page,Flow Chart
3	1	Modules Description,Login page Design
4	2	Chapters 1&2. abstract,Introduction
5	2	System Analysis,Module Design
6	2	Review I is completed
7	3	Chapter 3 System Testing,ODBC Connectivity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Form Designs, Menu Design
9	3	data flow, state Chart Diagram
10	4	Hardware, Software Requirements
11	4	Chapter 4 Documentation System Testing
12	4	Preparation for 2nd Review
13	5	Chapter 5 Conclusion, Future Enhancement
14	5	References
15	5	, Appendix, Completion of the project. Power Point Preparation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition OS, Booting Process, Before and After Booting
2	1	Kernel, Services of Os, Information management ,
3	1	Memory Management
4	1	Process Management
5	1	Generation os Os
6	1	First and Second Generation
7	1	Third Generation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Fourth Generation
9	1	Services of Operating System
10	4	GUI-Components,Requirements of G UI
11	4	Security and Protection
12	4	Virus,Infection methods of Virus
13	4	Virus Detection, Removal, Prevention
14	4	Encryption methods
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to GIMP
2	1	Installation of GIMP
3	1	Sample Program
4	2	Demonstrate Using ToolBox
5	2	Menus and Windows
6	2	Layer and Layer Masking
7	3	Performing Text Effects



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Modify Color Effects in images
9	3	Drawing Shapes in GIMP
10	4	Revision using above tools and Concepts
11	4	Sample programs 3
12	4	Format pictures,Cutting Images
13	5	Removing Background
14	5	Design a Business Code
15	5	Develop a Banner

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Operating System, Definition of Operating system,
2	1	Kernel, Booting, types of Booting, Services of Operating System, Information Management , Process Management,, Memory management.
3	1	History of Operating System
4	2	Process Management: Context Switching, Different States of Process, Process State Transition Diagram, Process Control Block (PCB), Operation on Process – Levels of Scheduling
5	2	Short term Scheduling Policies: Round robin method - Scheduling based on priority (or priority method) - Priority class method - Heuristic scheduling. - Inter-process communication
6	2	Dead Lock - Dead Lock prerequisites - Dead Lock Strategies.
7	3	Memory Management: Real Memory Management, Virtual Memory Management

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Real Memory Management: Contiguous Real Memory Management, Single Contiguous , Fixed Partitioned, Variable Partitions,
9	3	Non- Contiguous Real Memory Management–Paging , Segmentation - Virtual Memory Management Systems.
10	4	GUI and Security: GUI
11	4	Components of GUI – Requirements of Windows based GUI – Security: Threats – Attacks – Worms – Virus
12	4	Design principles – Encryption: Methods of Encryption – Authentication: Authentication in Centralized Environment, Authentication in Distributed Environment.
13	5	Unix - Architecture of Unix
14	5	Various Modules and relationship of Unix and their relationship – Unix File System: Different Types of Files,
15	5	Important Unix Directories and Files – Basic commands in UNIX.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Program
2	2	Simple Programs HTML
3	3	String Functions
4	4	Arrays
5	5	Functions
6	6	Create a Home Page using PHP
7	7	Form creation using POST method

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Database Operations
9	9	Login form
10	10	Student mark list creation
11	11	Electricity bill preparation.
12	12	WEB DESIGN
13	13	MY SQL
14	14	MY ADMIN USING DATABASE
15	15	COLLEGE WEBSITE

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19ECS65A : WEB GRAPHICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: HTML Coding Basic Web Graphics
2	1	Web Page Design Site building
3	1	Image Maps – Adding Multimedia to the Web.
4	2	Paint Sharp Pro/Photoshop: Introduction – Image Basics
5	2	File Formats GIF JPEG Color Palette Layers Creating new Images Brushes Grids Scaling Images
6	2	Moving and Merging layer Tool Palette Screen Capturing Gray Using Style Palette Animation.
7	3	Image Handling Scanning images

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	adding text to the images Designing icons Creating background images
9	3	Color models Color Depths Color Calibration Creating Gradients Oil paint effect.
10	4	Multimedia: Creating Clipping Animation with sound effect
11	4	Audio or video Window's Media Player ActiveX control
12	4	Embedding VRML in a web page Real player ActiveX control.
13	5	Applications Creating website with a particular theme
14	5	Graphics
15	5	Animations and Interactions

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHNBOSCO A Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	3.1. IRUPATHAM NOOTRANDU KAVIJARGAL
2	1	1.1. BHARTHIYAAR - KANINILAM 1.2. BHARTHITDAASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKAL KAVINAR - PIRAATHANAI 1.4. PAAVALERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5. KANNADASAN - THAVARU MANNIPPU 1.6. SURATHAA - MELADAI
5	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
7	3	3.2. PUTHUKAVITHAIEN THOTTRAMUM VALARCHIUM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1. ARIVUMATHI - POOTHTHA NERUPPU 2.2. MEERA - PILLAITHAMIZ
9	2	2.3. ERODU THAMIZHANBAN - VETRI MUGAM 2.4. VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5. SIRPI - APTHUL KALAAMIN VEENAI
11	2	2.6. I HAIKGOO KAVITHAIGAL
12	2	2.6. II SENTRIU KAVITHAIGAL
13	3	3.3. SIRUKATHAIEN THOTTRAMUM VALARCIUM
14	4	4.1. KADAVULUM KANTHASAMI PILLAIUM 4.2. ORU NAAAL KAZHINTHATHU
15	4	4.3. KAALANUM KIZHVIUM 4.4. AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam
2	1	Vallalar - thiruvarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JETHRUTH EMELDA MARY L</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>1</b>
Subject	<b>21MT101 : ALGEBRA AND TRIGONOMETRY</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Theory of Equations
2	1	Theory of Equations
3	1	Theory of Equations
4	2	Summation of series
5	2	Summation of series
6	2	Matrices
7	3	Elementary number theory

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Elementary number theory
9	3	Elementary number theory
10	4	Trigonometry
11	4	Trigonometry
12	4	Trigonometry
13	5	Trigonometry
14	5	Trigonometry
15	5	Trigonometry

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Mathematics	Semester	2
Subject	21LT02 : TAMIL - II	Course	Mathematics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. PALLAVAR KAALAM - ILLAKIYANGAL
2	1	1.1. VALLALAAR - THIRUVARUTKODAI ( 4798, 4799, 4802) 1.2. THIRUNANASAMPANTHAR - MUDAL THIRUMURAI - THIRU AALAVAYUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (1 - 6)
7	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (7 - 11)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Mathematics</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sound - consonants 1.Meeting people, exchanging greetings & taking leave 2.Introducing people to others
2	1	Prose: Forgetting- Robert Lynd 1.Letter - writing - informal letters 2.The sentence 3.Parts of speech
3	2	Speech sounds - pure vowels 1.Giving personal information 2.Talking about people
4	2	Poem: Mending Wall - Robert Frost 1.Letter - writing- formal letters 2.Nouns - Classes and Gender 3.Nouns - Number and case 4.Adjectives 5.Comparison of Adjectives
5	3	Diphthongs 1.Taking and leaving messages 2.Making enquiries on the phone
6	3	Poem : Time and Love - William Shakespeare 1.Dialogue writing 2.Articles 3.Pronouns- personal, reflexive and emphatic 4.Pronouns - Demonstrative, Indefinite, interrogative, Distributive and Reciprocal 5.Pronouns- Relative
8	4	Phonetic transcription ( words ) Answering the telephone and asking for someone

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	1.Prose : Mother Teresa - John Frazer 2. One - Act Play: The Best Laid Plans - Farrel Mitchell
10	4	1.Reading comprehension 2.Verbs - Transitive and Intransitive 3.Verbs - Active and Passive Voices
11	5	Voiced and voiceless sounds Dealing with a wrong number
12	5	Short story : The Selfish Giant - Oscar Wilde
13	5	1.Verbs - Mood and Tense 2.Concord or Agreement of the Verbs with the subject
7	0	I CIA EXAMINATIONS
14	0	II CIA EXAMINATIONS
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Making Requests and Responding to Requests Thanking Someone and Responding to Thanks
2	1	Precis Writing Non - Finite Verbs
3	1	How to be a Doctor - Stephen Leacock
4	2	Inviting, Accepting and Refusing an Invitation
5	2	Apologising and Responding to an Apology Note - Making
6	3	Paying Compliments, Showing Appreciation, Offering Encouragement and Responding to them. Asking for , Giving and Refusing Permission. Report Writing
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Describing Daily Routines Personal Details
9	4	The Merchant of Venice - William Shakespeare
10	5	Asking for Directions and Giving Directions Paragraph Writing
11	5	Use of Wrong Tenses
12	5	The uses of Prefix and Suffix
13	5	Transcription
14	5	II CIA Exam
15	5	Revision & Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANJAL MOSE S Dr.	Academic Year	2022-2023
Department	Mathematics	Semester	2
Subject	21MT204 : NUMERICAL METHODS	Course	Mathematics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	First and higher order differences, forward differences and Backward differences
2	1	Operators, Relation between Delta, Del, and E, Interpolation
3	1	Gregory- Newton's forward & backward formulae for interpolation.
4	2	Central difference operators, Central differences formulae
5	2	Gauss Forward and Backward formulae
6	2	Stirling's formula and Bessel's formula.
7	3	Divided differences , Newton's divided differences formula and Lagrange's interpolation formula

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Estimating the Missing terms [with one or more missing values], Inverse Lagrange's method.
9	3	Inverse Lagrange's method.
10	4	Gauss Elimination Method ,Gauss Jordan Method
11	4	Gauss Seidal Method, Crout's Method
12	4	Crout's Method, Inverse of a Matrix-Gaussian Method.
13	5	Euler's method: Improved Euler's method, Modified Euler's method
14	5	The Runge Kutta Method of first order differential equations, Adam's method
15	5	Trapezoidal rule-Simpson's 1/3rd rule (Simple problems only)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SARANRAJ R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>1</b>
Subject	<b>18SMT101 : ALLIED STATISTICS - I</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
2	1	Measures of Dispersion: Range, Quartile Deviation,
3	1	Mean Deviation, Standard Deviation and Coefficient of Variation.
4	1	Measures of Skewness: Karl Pearson's coefficient of Skewness, Bowley's coefficient of Skewness and Kelly's coefficient of Skewness. Kurtosis
5	2	Probability: Basic definitions – Axiomatic approach to Probability – Basic theorems on Probability
6	2	Addition theorem on probability and related problems – Conditional probability –
7	2	Multiplication theorem of probability and related problems – Independent events



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Pair wise Independent events (definition only) – Baye’s theorem and related problems.
9	4	Mathematical Expectations: Definition and Properties of Expectations
10	4	Addition theorem of expectation and Multiplication Theorem of Expectation
11	4	Variance, Covariance and their properties. Moment generating function
12	4	Characteristics function - Cumulants – Chebychev’s inequality (only theorem)
13	5	Correlation: Scatter diagram, Karl Pearson’s Coefficient of correlation,
14	5	Spearman’s rank correlation , Partial and Multiple correlations (3 variables only) related problems.
15	5	Regression analysis: Simple regression equations and related Problems.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>18SMT202 : ALLIED STATISTICS - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Fitting of Binomial Distribution
2	3	Fitting of Poisson Distribution
3	3	Fitting of Normal Distribution.
4	3	Test for single population mean. Test for Difference population mean.
5	3	Paired t test. Test for correlation coefficients.
6	3	Test for single population variance. Test for Difference population variance.
7	3	chi- square test : goodness of fit.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Test for single population proportion. Test for Difference population proportion.
9	4	Test for single population variance. (Large Sample). Test for Difference population variance.(Large Sample).
10	4	chi- square test : goodness of fit. (Large sample).
11	5	One way Classification.
12	5	Two way Classification.
13	5	Complete randomized design.
14	5	Randomized block design.
15	5	Latin square design

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROKIAMARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>MT616 : COMPLEX ANALYSIS - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simply connected domains – Multiply connected domains – Cauchy integral's formula .
2	1	An extension of Cauchy integral's formula – Some consequences of the extension– Liouville's theorem.
3	1	the fundamental theorem of Algebra – Maximum modulus principle
4	2	Convergence of sequences – Convergence of series – Taylors Series .
5	2	Proof of Taylor's theorem – Examples – Laurent Series .
6	2	Proof of Laurent's Theorem – Examples – Uniqueness of Series representations.
7	3	Isolated singular points – Residues – Cauchy's Residue Theorem .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Residue at infinity– The three types of isolated singular points – Residues at poles .
9	3	Examples – Zeros of an analytic function – Zeros and poles.
10	4	Evaluation of improper integrals – Examples .
11	4	Improper integrals from Fourier Analysis – Jordan’ s lemma – Definite integrals involving sines and cosines.
12	4	Argument principle –Rouche’s Theorem.
13	5	Linear transformations – The transformation $w = 1/z$ .-
14	5	Linear fractional transformations – implicit form .
15	5	Mappings of the upper half plane(Omit examples) Conformal mapping: Preservation of angles.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>EMT617S : PROGRAMMING IN C LANGUAGE</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Structure of C Programs- Programming style
2	1	Executing a 'C' Programs –'c' Tokens
3	1	Keywords and Identifiers
4	2	Constants-Variables-Data Types
5	2	Declaration of Variables- Declaration of Storage Class
6	2	Assigning values to variables, Assignment Operator
7	3	Arithmetic Operators-Relational operators- Logical operators

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Assignment operators-Increment and decrement operators-Conditional operators
9	3	Bitwise operators-Evaluation of Expressions-Precedence of Arithmetic operators
10	4	Formatted input- Formatted output- Decision making with 'IF' statement
11	4	Simple IF statement- The IF....ELSE statement-Nesting of IF... ELSE statement
12	4	The ELSE IF ladder-The switch statement – The ?: Operators-The GOTO statement
13	5	The WHILE statement-The DO statement-The FOR statement-Jumps in LOOPS
14	5	One dimensional array-Declaration of one dimensional arrays-Initialization of one dimensional arrays
15	5	Two dimensional arrays-Multi dimensional arrays

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>MTP601 : PRACTICAL - PROGRAMMING IN C LANGUAGE</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Assigning the ASCII value. Square of numbers: Using For loop,
2	1	Square of numbers:While loop, Square of numbers: Do- while loop,
3	1	Square of numbers :Go to statement.
4	2	Printing Alphabets between two letter
5	2	Counting Vowels and consonants.
6	2	Printing Prime number between two numbers
7	3	Fibonacci series



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Factorial numbers
9	3	Power of a value
10	4	Checking Palindrome in string
11	4	Sin(X) series, Cos(X) series
12	4	Pascal Triangle, Binary search
13	5	Matrix Transpose
14	5	Matrix Addition, Matrix Subtraction
15	5	Matrix Multiplication

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JETHRUTH EMELDA MARY L</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>3</b>
Subject	<b>20MT305 : DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORM</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Differential equations of first order and higher degree
2	1	Differential equations of first order and higher degree
3	1	Differential equations of first order and higher degree
4	2	Ordinary Differential equations -Eulres homogeneous DE
5	2	Ordinary Differential equations -Legendres Equations
6	2	Ordinary Differential equations - Method of variation of parameters and method of undetermined coefficient
7	3	Partial Differential equations

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Partial Differential equations
9	3	Partial Differential equations
10	4	Laplace Transformation
11	4	Laplace Transformation
12	4	Laplace Transformation
13	5	Inverse Laplace Transformation
14	5	Inverse Laplace Transformation
15	5	Inverse Laplace Transformation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock-Interviews/Actual Interviews Facing an Interview Tele-Interviews
2	1	Drama: Julius Caesar - Funeral Oration - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 1-10) Description
3	2	Words often Confused Seminar Skills
4	2	Drama: Macbeth - He Kills Sleep - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 10-11) Idioms and Phrases
5	3	Homonyms and similar words Tele-conferences Handling Customer or Clients Receiving Visitors
6	3	Drama: Henry IV (Part-I) - Play Out A Play - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 21-30) The use of Graphics
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making Small Talk and Telling Stories
9	4	Drama: As You Like It - Patterns of Love - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40)
10	4	Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40) Negotiations
11	5	Group Discussions Making Appointments Cancelling and Rescheduling Appointments
12	5	Drama: Hamlet - Churchyard - William Shakespeare Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-50)
13	5	Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-50) Writing Review of Books
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Yettuth thogai
2	1	Purananooru 184,204 Agananooru 219,351
3	1	Kurun thogai 20,210 Natrinai 21,86
4	1	Ayingru nooru 1-5 Kalith thogai 5
5	2	Pari padal 71-1
6	4	Pathinen keezh kanakku noolgal
7	3	Virunthobal 1-10 Kallamai 1-5

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Kallamai 6-10 Kuripparithal 1-10
9	4	Pathu pattu
10	2	Sirubanatru padai
11	2	Mullai pattu
12	2	Madhuri kanji
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>3</b>
Subject	<b>ACMT301Q : ACCOUNTING FOR BUSINESS</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT-I: Introduction to Accounting Meaning – Definition-Need for Accounting – scope of Accounting – Branches of Accounting – Methods of Accounting – Types of accounts – Accounting rules- Book Keeping.
2	1	Accounting – Objectives of Accounting –Advantages and limitations of accounting. Journal – Meaning- Transaction analysis for journal entries. Ledger – Meaning and definition.
3	1	Differences between journal and ledger- Trial Balance-Meaning -Preparation of Trial Balance.
4	2	UNIT- II: Subsidiary Books and Bank Reconciliation Statement Subsidiary Books – Benefits of Subsidiary Books – Preparation of Individual Subsidiary Books – Purchase – Sales – Purchase Returns – Sales Returns.
5	2	Cash Book – Single Column – Two Column – Three Column Cash Book .
6	2	Bank Reconciliation Statement – Meaning – Definition – Causes for Differences Between Cash Book and Pass Book- Method of Preparation of Bank Reconciliation Statement.
7	3	UNIT-III: Final Accounts Final Accounts of Sole Trader – Preparation of Profit and Loss Account.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Profit and Loss Account and Balance Sheet – Without Adjustments
9	3	Profit and Loss Account and Balance Sheet (With Adjustments)
10	4	UNIT – IV: Cost Accounting Meaning and definition – Types of costing –Elements of cost – Preparation of cost sheet
11	4	Reconciliation statement-tenders and Quotations
12	5	UNIT – V: Marginal Costing Marginal Costing - Meaning and Definition, Features, Advantages and Limitations.
13	5	Absorption Costing- Cost Volume Profit Analysis - Break Even Analysis and Break Even Point-
14	5	Applications of Marginal Costing. (Key Factor, Make or Buy Decision, Export Decision, Product Mix and Sales Mix Decision
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1 SEEVASINTHAMANI - NATTUVALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUVU KAAPIYAM
12	4	4.4. ISLAMIYA KAAPIYAM
13	3	3.1. PERIYAPURANAM - ILLAIYANKUDI MAARANAYANAAR PURANAM
14	3	THEMPAAVANI - SETHAION VTRI PADALAM
15	3	SEERAAPURANAM - KAAMAPADALAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Mathematics	Semester	3
Subject	LT303A : TAMIL - III	Course	Mathematics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1. SEEVASINTHAMANI - NATTUVALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUYA KAAPİYAM
12	4	4.4. ISLAMİYA KAAPİYAM
13	3	3.1. PERİYAPURĀNAM - ILLĀYĀNKUDI MAARĀNĀYĀNĀR PURĀNAM
14	3	THEMPĀĀVĀNI - SETHĀION VTRI PADĀLAM
15	3	SEERĀAPURĀNAM - KĀĀMAPĀDĀLAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMA PRIYA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>MT407S : FUZZY SETS AND APPLICATION</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Fuzzy set theory Fuzzy sets
2	1	Different types of fuzzy sets
3	1	General properties of fuzzy sets
4	1	Important operation on fuzzy sets General properties of fuzzy sets vs Crisp
5	2	Operation on fuzzy sets Introduction
6	2	Some important theorem Fuzzy compliments
7	2	Further operations on fuzzy sets Theorem



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	t-norms and t-conorms
9	2	Intersection and Union of fuzzy sets
10	4	Fuzzy relation Equivalence relation
11	4	Binary relations on a single set Properties of Min-Max composition
12	4	Max-Min Composition Compatibility relation
13	4	Fuzzy ordering relation Theorems
14	4	Max-product and Max-average Related problems
15	4	Fuzzy graphs Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SANGA ILLKKIYAM - ETTUTHOGAI NOOLGALIL..., PURANANOORU 184, 204 AGANANOORU 219, 351
2	1	KURUNTHOGAI 20, 210 NATTRENAI 21,86
3	1	IYNGURUNOORU ANNAI VAZHI PATHU 1-5 PADALGAL KALITHOGAIYIL KURUNGHICALI 5 PADALGAL
4	4	ILLKKIYA VARALARU- ETTUTHOGAI NOOLGAL PATHINENKZHKKANAKIL NEETHI NOOLGAL
5	3	THIRUKKURALIL 3 ATHIGARANGAL ARATHUPPALIL VIRUNTHOMBAL PORUTPPALIL KALLAMAI INNBATHUPPALIL KURIPPARETHAL
6	1	ETTUTHOGAYIL PAREPADAL VAIYAI PADAL-10, 71- 131VAREGAL
7	4	ILLKKIYA VARALARU- PATHINENKZHKKANAKIL NEETHI NOOLGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPATTU NOOLGALIL..., SIRUPANNATTUPADAI 111-145 ,235-261 VAREGAL
9	2	MULLAIPPATTU - 26-79 VAREGAL NAALLIYAKKODAN SIRAPPU
10	5	MOZHITHIRAN PATHIREGAIGALIL SEITHI VARAITHAL SURUKKI VARAITHAL
11	2	MADURAI KAANGHI 238- 270 VAREGAL THAMIZH NILATHIL AMAINTHA 5 NILAPPAGUTHIGALIN PANBUM VALAMUM
12	2	PATTINAPPALAIYIL 1-59 VAREGAL KAAVIREPOOMPATTINATHIN SIRAPPUGAL
13	5	MOZHITHIRANIL..., NEERKKAANAL
14	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL
15	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettu thokai noolkal
2	1	Purananuru - 184, 204 ; Akananuru - 219, 351
3	1	Kunthogai - 20, 210; Natrinai - 21, 86
4	1	Ienkurunuru - Annaye pathu 1-5, Kalithogai - Kurinchikali 5
5	1	Paripadal - Vaiyai patham padal 71-131
6	4	Keezhkanakku noolkalil neethi noolkal
7	3	Thirukkural - Virunthombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Kallamai, Kuripparithal
9	4	Pathupattu noolgal
10	2	Sirupanatrupatai 111-145, 235-261
11	2	Mullai pattu 26-79
12	2	Madurai kanchi 238-270
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhithiran - pathirikaigalukku seithi varaithal, Surukki varaithal, Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SAVITHAMARY A	Academic Year	2022-2023
Department	Mathematics	Semester	4
Subject	MT407S : FUZZY SETS AND APPLICATION	Course	Mathematics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction – fuzzy numbers –
2	3	algebraic operations with fuzzy numbers
3	3	algebraic operations with fuzzy numbers
4	3	binary operation of two fuzzy numbers
5	3	Some special extended operations –
6	3	Interval analysis in arithmetic –
7	3	Interval analysis in arithmetic –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Lattice of fuzzy numbers.
9	3	Lattice of fuzzy numbers.
10	5	Fuzzy logic
11	5	Fuzzy connectives
12	5	Fuzzy inference
13	5	Fuzzy propositions
14	5	Fuzzy Quantifiers
15	5	Fuzzy Hedges

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>3</b>
Subject	<b>20LE303 : COMMUNICATIVE ENGLISH - III</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Narration Welcoming the Gathering Introducing a Guest to the Audience
2	1	Thanking the Gathering and Organizers of an Event One Act Play: Refund - Fritz Kazinthy Publicity Literature
3	2	Quit India - Mahatma Gandhi Tryst with Destiny - Jawaharlal Nehru Giving One's Opinion on Current National/ Social Issues
4	2	One - Act Play : The Bear - Anton Chekhov Spotting Errors Gettysburg Address - Abraham Lincoln
5	3	I Have a Dream - Martin Luther King Preparing News Items of Local Events and Speaking about them Sample News Items
6	3	One Act Play : The Hour of Truth : Percival Wide E Mail Writing
8	4	Inaugural Address - John.F.Kennedy Prepared to Die - Nelson Mandela



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	Autobiography : Sorrows of Childhood - Charles Chaplin
10	4	Presentation Skills Resume Writing
11	5	Some Useful Expressions Speech Writing
12	5	Biography : Marie Curie - Colin Mitchell
13	5	Biography : Sarojini Naidu - Padmini Sengupta Minutes Writing
15	0	Revision
7	0	I CIA Exam
14	0	II CIA Exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems -Concept, structure and function of an ecosystem – producers, consumers and decomposes – energy flow.
5	2	Ecological succession – food chains, food webs and ecological pyramids – types.
6	2	Characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity.
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution.
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act.
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>MT616 : COMPLEX ANALYSIS - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simply connected domains – Multiply connected domains – Cauchy integral's formula
2	1	An extension of Cauchy integral's formula – Some consequences of the extension–
3	1	Liouville's theorem and the fundamental theorem of Algebra – Maximum modulus principle.
4	2	Convergence of sequences – Convergence of series – Taylors Series
5	2	Proof of Taylor's theorem – Examples – Laurent Series – Proof of Laurent's Theorem
6	2	Examples – Uniqueness of Series representations
7	3	Isolated singular points – Residues – Cauchy's Residue Theorem – Residue at infinity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The three types of isolated singular points – Residues at poles
9	3	Examples – Zeros of an analytic function – Zeros and poles
10	4	Evaluation of improper integrals – Examples – Improper integrals from Fourier Analysis
11	4	Jordan's lemma – Definite integrals involving sines and cosines
12	4	Argument principle – Rouché's Theorem
13	5	Linear transformations – The transformation $w = 1/z$ - Linear fractional transformations
14	5	Implicit form – Mappings of the upper half-plane
15	5	Conformal mapping: Preservation of angles

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PADMA PRIYA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>EMT618A : OPERATIONS RESEARCH</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Linear Programming Problem Mathematical formulation
2	1	Simplex method
3	1	Big M method
4	2	Transportation problem North West Corner rule
5	2	Least Cost entry method Vogel's approximation method
6	2	Test of optimality Modi's method
7	3	Assignment problem Mathematical formulation for assignment

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Hungarian method for optimality Sequencing problem
9	3	Two Machines problem Three Machines problem
10	4	Game theory Pure strategy
11	4	Mixed strategy Dominance property
12	4	Graphical method
13	5	Network analysis CPM
14	5	PERT
15	5	Network analysis Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SAVITHAMARY A	Academic Year	2022-2023
Department	Mathematics	Semester	6
Subject	EMT617S : PROGRAMMING IN C LANGUAGE	Course	Mathematics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Structure of C Programs- Programming style
2	1	Executing a 'C' Programs
3	1	c' Tokens- Keywords and Identifiers.
4	2	Constants-Variables-Data Types-
5	2	Declaration of Variables- Declaration of Storage Class-
6	2	Assigning values to variables
7	3	Arithmetic Operators-Relational operators- Logical operators-



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Assignment operators-Increment and decrement operators- Conditional operators-
9	3	Bitwise operators-Evaluation of Expressions-Precedence of Arithmetic operators.
10	4	Formatted input- Formatted output- Decision making with 'IF' statement-
11	4	Simple IF statement- The IF....ELSE statement-Nesting of IF... ELSE statement-
12	4	The ELSE IF ladder-The switch statement – The ?: Operators- The GOTO statement.
13	5	The WHILE statement-The DO statement-The FOR statement-
14	5	Jumps in LOOPS-One dimensional array-Declaration of one dimensional arrays
15	5	-Initialization of one dimensional arrays-Two dimensional arrays-Multi dimensional arrays.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prathani) Pavalaru Paruchiyhiranar - Kanicharu
4	1	Kanadasan - Thavru - manipu
5	5	Ilakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendiru Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathi - orunal Kazinthzthu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Micro Biology	Semester	2
Subject	19ABCP22 : BIOCHEMISTRY PRACTICAL	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of Ascorbic acid using dichlorophenol indophenol dye as link solution
2	2	Estimation of Glycine by Sorrenson formal titration
3	3	3. Estimation of Glucose by Benedict's method.
4	4	4. Estimation of protein by lowry method
5	5	5. Estimation of iron
6	6	. Blood grouping
7	7	ESR

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	RBC & WBC Count
9	9	. Bleeding and clotting time.
10	10	. Estimation of Hemoglobin
11	11	Urine analysis
12	12	Urine analysis
13	13	Urine analysis
14	14	Urine analysis
15	15	Urine analysis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	20am noottrandu kavigergal
2	1	Bharathiyar Bharathi dhasan
3	1	Namakkal kaviger Perunchitharanar
4	1	Kanna dhasan
5	5	Muthal eluthkkal Vallotru mihumidam
6	5	Vallotru mihaidam
7	3	Puthukkavithai thotramum valarchium

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi Meera
9	2	Erodu Thamizhanban Viramuthu
10	2	Sirppy
11	2	Hai koo kavithai
12	2	Sendriu kavithaigal
13	4	Sirukathai thotramum valarchium
14	4	Kadavulum kanthasamy pillaum Oru naal kalinthathu
15	4	Kalanum kizhaviyum Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	3.1 IRUPATHAM NOOTRANDU KAVINJARGAL
2	1	1.1 BHARATHIYAR - KANINILAM 1.2 BHARATHI THASAN - NATTIYAL NATTUVOM
3	1	1.3. NAAMAKKALKAVINJAR - PIRAATHANAI 1,4 PAAVALARERU PERUNCHITHIRANAAR - KANICHAARU
4	1	1.5 KANNADHASAN - THAVARU MANNIPU 1.6 SURATHAA - MELAADAI
5	5	5.1 MUDHAL EZHUTHTHU, SAARPEZHUTHTHU
6	5	5.2 VALLOTRU MIGUM IDAM 5.3 VALLOTRU MIGA IDAM
7	3	3.2 PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2.1 ARIVUMATHI - POOTHA NERUPPU 2,2 MEERA - PILLAI THAMIZH
9	2	2.3 ERODU THAMIZHANBAN - VETRI MUGAM 2.4 VAIRAMUTHTHU - SUTHANTHIRAM
10	2	2.5 SIRPI - ABDUL KALAAMIN VEENAI
11	2	2.6 iI HAIKOO KAVITHAIGAL
12	2	2.6 II SENTRIYU KAVITHAIGAL
13	3	3.3 SIRUKATHAIYIN THOTRAMUM VALARCHIYUM
14	4	4.1 KADAVULUM KANTHASAMI PILLAIYUM 4.2 ORU NAAL KAZHINTHATHU
15	4	4.3 KAALANUM KIZHAVIUM 4.4 AGALYAI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>19MB102 : MICROBIAL TAXONOMY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Classification - classification system of Haeckel, Whitaker
2	1	Prokaryotes and eukaryotes and differences between them- Evolution of microorganisms -
3	1	Taxonomical ranks- Binomial Nomenclature - Characteristics used in Taxonomy
4	2	Outline of bacterial classification according to Bergey's manual
5	2	Brief account of important groups of bacteria - Archaeobacteria, Spirochetes, Mycoplasma, Actinomycetes,
6	2	Brief account of important groups of bacteria -Photosynthetic bacteria, Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria.
7	3	Fungi – characteristics, morphology, reproduction, physiology,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Classification of fungi – Fungi of special interest - Mucor, Rhizopus, Penicillium, Neurospora,
9	3	Classification of fungi – Fungi of special interest -Agaricus, Saccharomyces, Candida, Lichens, mycorrhiza
10	4	Algae - occurrence, importance, characteristics, classification, Algae of special interest – Chlamydomonas, Euglena,
11	4	Algae of special interest – Volvox, diatoms – Protozoa - occurrence, free-living, symbiotic, morphology, reproduction,
12	4	Classification of protozoa – Protozoa of special interest – Amoeba, Paramecium
13	5	Viruses - general characteristics, morphology,
14	5	Classification of viruses – viruses of bacteria, plants, animals, human beings – T4 phage,
15	5	TMV, rabies, HIV as examples.

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>19MB204 : MICROBIAL METABOLISM</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Principles of energetics
2	1	oxidation-reduction reaction
3	1	respiratory chain
4	2	Energy production by anaerobic process - Glycolysis,
5	2	Pentose phosphate pathway, ED Pathway,
6	2	Fermentation
7	3	Energy production by aerobic process -TCA,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	catabolism of lipids,
9	3	catabolism of proteins
10	4	Energy production by aerobic process (respiration without oxygen,
11	4	heterotrophic CO <sub>2</sub> fixation,
12	4	glyoxylate cycle
13	5	Energy production by photosynthesis (cyclic, non-cyclic),
14	5	Mechanism of ATP synthesis
15	5	Bioluminescence

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Triphthongs 1.Making request and responding to thanks 2. Thanking someone and responding to thanks
2	1	How to be a doctor- Stephen leacock (prose) 1.Precis writing
3	1	Non finite verbs Strong and Weak verbs. Use of wrong preposition
4	2	4 . The Auxiliaries Strong and weak forms in transcription Auguries of Innocence- William Blake Note making
5	2	Unnecessary use of articles The relationship between spelling and sound Report writing
6	3	My visions for India - A.P.J Abdul Kalam Punctuation and capitals Paying compliments, showing appreciation, offering encouragement and responding to them
7	3	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Sentence transcription Describing daily routines
9	5	Merchant of Venice- William Shakespeare
10	4	Paragraph writing If - Rudyard Kipling
11	5	Use of wrong tenses The uses of prefixes and suffixes.
12	5	Kiran Bedi - Parmesh Dangwal Asking for directions and giving directions
13	5	Transcribing short passages Personal details
14	5	Revision
15	5	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAJI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>19MB101 : FUNDAMENTALS OF MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - History (Discoveries - Contributions of Women Scientists in Microbiology)
2	1	Scope of Microbiology Employability in Microbiology (Job opportunities and Entrepreneurship)
3	2	Morphology - Shape, size, arrangement of Bacteria - Structure of bacterial cell
4	2	Structure and functions of cell organelles (Cell wall, structures found outside the cell wall and within the cell wall) - Structure of Endospore
5	3	Microscopy - Simple, Compound, Dark-field,
6	3	Phase-contrast, Fluorescent, Electron
7	3	Microscopes Stains and dyes

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	staining methods. simple negative gram staining spore staining acid fast staining
9	4	Sterilization
10	4	Physical agents - High temperature, Low temperature, Desiccation
11	4	Osmotic pressure, Radiation, Filtration
12	5	Sterilization - Chemical agents Phenols and phenolic compounds, Alcohols, Halogens
13	5	Heavy metals and their compounds, Dyes, Synthetic detergents, Quaternary ammonium compounds
14	5	Aldehydes, Gaseous agents -Antibiotics - Classification, Mode of action
15	5	Antifungal and antiviral agents.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	LT303A : TAMIL - III	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthava Kap[iyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	4
Subject	LT404A : TAMIL - IV	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiyavaralaru - Etuthogai
2	1	Purananooru - 184, 204 Agananooru - 219, 351
3	1	Kurunthogai -20, 210 Nartinaai - 21, 81
4	1	Ingurunooru - annai Pathu 1 - 5 Kalithogai - Kuringikali
5	1	Paribadal 71 - 131
6	4	Ilakiyavaralaru - Keelkanakil Neethi Noolgal
7	3	Thirukural - Virunthombal , Kalaamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural - Kalaamai, Kuriparithal
9	4	Ilakiyavaralaru - Pathupattu
10	2	Sirupaanartupadai - 111 - 145, 235-261
11	2	Mullaipatu - 26 - 79
12	2	Maduraikangi - 238 - 270
13	2	Patinapalai - 1 - 59
14	2	Patinapalai - 1 - 59
15	5	Mozhithiran

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources.
2	1	Over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	Ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem,
6	2	Grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	Solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	Ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BENJAMIN ROZARIO P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>NCMED401 : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	EDP: Meaning-Needs-
2	2	Objectives of EDP
3	2	-Course Contents
4	2	EDP Course Curriculum
5	2	Phases of EDP
6	2	Organizations providing Entrepreneurship Development Programmes.
7	2	Organizations providing Entrepreneurship Development Programmes.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Organizations providing Entrepreneurship Development Programmes.
9	2	Revision
10	4	Sources of Raising Funds for an Entrepreneur
11	4	Sources of Raising Funds for an Entrepreneur-
12	4	Need for Institutional Finance-
13	4	Various Institutions supporting Entrepreneurial growth
15	4	Revision
14	4	Various Institutions supporting Entrepreneurial growth – Subsidies

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>NCMED401 : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Entrepreneurship - Entrepreneurship: Meaning-Definition
2	1	Entrepreneurship: Characteristics
3	1	Entrepreneurship:-Qualities
4	1	Entrepreneurship: Types of an Entrepreneur
5	1	Entrepreneurship: Women Entrepreneur: Concept and Definition
6	1	Challenges of Women Entrepreneurs
7	1	Opportunities of Women Entrepreneurs

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Entrepreneurship: Roles of an Entrepreneur
9	1	Revision
10	4	Institutional Support and Subsidies Sources of Raising Funds for an Entrepreneur
11	4	Need for Institutional Finance
12	4	various Institutions supporting Entrepreneurial growth
13	4	Subsidies available to Entrepreneurs.
14	5	MSMEs- Meaning and Classifications
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>NCMED401 : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Opportunities Identification and Selection – Introduction , Meaning , Definition , Importance
2	1	Business Opportunities in Various Sectors
3	1	Sources of Business ideas and idea generation Techniques
4	2	Methods of generating ideas
5	2	Product Identification
6	2	Opportunity Selection
7	3	Steps to select the right opportunities

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Steps in selecting up a small industrial enterprise.
9	3	Revision of Units I, II & III
10	5	MSMEs and Major Schemes– Introduction –Meaning
11	5	Classification of Enterprises, Memorandum of MSMEs
12	5	Registration of MSMEs, MUDRA Scheme
13	5	Prime Minister’s Employment Generation Programme (PMEGP)
14	5	STAND UP INDIA and START-UP INDIA – Make in India
15	5	Revision of Units IV & V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19MB408 : MICROBIAL GENETICS</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction; Bacterial plasmids; Gene transfer mechanisms - Bacterial Transformation – the discovery of transformation
2	1	detection of transformation – competence – DNA uptake
3	1	molecular mechanism of transformation – mapping by transformation
4	2	Bacterial Conjugation – Insertion of F plasmid into the E. coli chromosome, Hfr Transfer
5	2	Recombination in recipient cells, properties of systems lacking recombination proteins
6	2	the RecA, B, C proteins and their function – chromosome transfer in bacteria other than E. coli
7	3	Regulation of gene expression – common modes of regulation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	the E. coli Lactose system and the operon model
9	3	the tryptophan operon, a biosynthetic system. Autoregulation
10	4	Bacteriophages – General properties life cycle – counting phage – properties of a phage- infected bacterial culture
11	4	specificity in phage infection. Host restriction and modification - Phage genetics I: phage T4 – Phage mutants, Genetic mapping of phage T4
12	4	features of the T4 life cycle. Phage genetics II: phage ? – ? DNA and its gene organization, outline of the life cycle of ?, ? DNA replication and phage production, recombination in the ? life cycle
13	5	Phage genetics III: Lysogeny – Immunity and repression – lysogenization and prophage insertion
14	5	prophage excision – Polylysogeny. Phage genetics IV: Transduction
15	5	DNA transfer by means of transduction – cotransduction and linkage – properties of specialized transducing particles

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>19MB306 : Molecular Biology</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic concepts of Molecular biology: Nucleic acid as Genetic material- Griffith experiment, Hershey & Chase experiment;
2	1	Central dogma of Molecular biology, structure and functions of Nucleic acid:
3	1	Nucleosides and Nucleotides, purines and pyrimidines.
4	2	Structure of DNA and RNA: Structure of DNA - Forms of DNA (A, B and Z) -
5	2	Denaturation and renaturation of DNA -
6	2	Structure of RNA –Types (t-RNA, r-RNA, m-RNA) - RNA as the genetic material.
7	3	Organization of prokaryotic genetic material - Plasmids -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Organization of eukaryotic genetic material - Chromosome
9	3	Transposons – Concept of gene – genetic code.
10	4	Replication of DNA - Enzymology of replication
11	4	Mutation types – Mutagenic agents - carcinogenicity testing
12	4	DNA damage and repair
13	5	Gene expression – Detailed account of Transcription and Translation
14	5	Post-transcriptional modifications in prokaryotes and eukaryotes
15	5	Post-translational modifications.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust
14	5	wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	19AZMB31 : CLASSICAL GENETICS & BIOSTATISTICS	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	History of genetics – Mendel's experiments: monohybrid, dihybrid Cross - hybrid vigour – pleiotropism - epistasis - 1
2	1	ethal genes – atavism –polygenic inheritance Multiple Alleles and linkage - ABO Blood Group inheritance
3	1	Rh factor – linkage and linkage group.
4	2	Crossing over –Mechanism- factors controlling crossing over – mitotic and meiotic crossing over
5	2	somatic and germinal crossing over – significance of crossing over - construction of chromosome maps
6	2	chromosomes – size, shape, structure, types and physiology of chromosomes.
7	3	DNA as the genetic material – structure of DNA, euploidy - aneuploidy – chromosomal aberrations -



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pedigree analysis – eugenics and euphenics
9	3	inbreeding, outbreeding and hybrid vigour - population genetics.
10	4	Introduction – Scope – Definition –Data collection – Methods of data collection – Classification of Data – Tabulation of Data – Diagrammatic, Graphical presentation of Data – Histogram –
11	4	Frequency polygon – Oogive curves. Measures of central tendency - Arithmetic mean – Median – Mode
12	4	standard deviation– mean deviation – skewness – kurtosis.
13	5	Correlation – simple correlation – Rank correlation – Regression – Probability – Addition theorem – Multiplication theorem
14	5	Test of significance – Hypothesis testing – Null hypothesis – Large sample test – small sample test (Students ‘t’ test)
15	5	chi-square test – standard error – ANOVA (Analysis of variance) – one way ANOVA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock interview Actual interview Drama: Julius Caesar -funeral oration -william Shakespeare
2	1	Novel ( the count of Monte Cristo-Alexander Dumas chapter 1-10
3	2	Words often confused Seminar skills Drama Macbeth -he kills sleep -william Shakespeare
4	2	Idioms & phrase The count of Monte Cristo( chapter 11- 20)
5	3	Homonyms Tele conference Handling customers Clients Reciving visitors
6	3	Drama Henry 4 part 1 play out a play - William Shakespeare Novel: the count of Monte Cristo - Alexander Dumas (chapter 21-30)
7	4	ICIA Homophones Booking hotel accommodation Making small talk and telling story

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Drama As you like it Patterns of love - William Shakespeare Novel : the count of Monte Cristo - Alexander Dumas
9	4	Negotiable skills
10	5	Group discussion
11	5	Making appointments
12	5	Drama : Hamlet -churchyard - William Shakespeare
14	5	Writing Review of Books x
15	5	Revision
13	5	Novel : The count of Monte Cristo

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANGEL W	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	20LE303 : COMMUNICATIVE ENGLISH - III	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience Thanking the gathering and Organizers of an event
2	1	Refund-Fritz Karinthy Publicity Literature
3	2	Giving one's opinion on current national/ Social issues Spotting errors Tryst with Destiny-Jawaharlal Nehru
4	2	Quit India- Mahatma Gandhi The Bear-Anton Chekhov
5	3	Preparing news items of local events and speaking about them Sample news item E- mail writing
6	3	The Hour of Truth - Percival Wilde Gettysburg address- Abraham Lincoln I have a Dream- Martin Luther king
7	123	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Inaugural Address - John F. Kennedy Students Seminar
9	4	Prepared to Die- Nelson Mandela Presentation Skills
10	4	Sorrows of Childhood - Charles Chaplin Resume Writing
11	5	Some useful Expressions Speech Writing
12	5	Minutes Writing
13	5	Marie Curie - Colin Mitchell Sarojini Naidu - Padmini Sengupta
14	45	Revision
15	45	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Micro Biology	Semester	4
Subject	19AZMB42 : APPLIED ENTOMOLOGY	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition – classification upto orders - scope-
2	1	Agricultural entomology, Forest entomology, Veterinary entomology,
3	1	Medical entomology, Forensic entomology, Industrial entomology.
4	2	Pest identification marks, nature, symptoms of damage. Any three pests - rice, Maize, pulses, sugar cane,
5	2	cotton, coconut, ground nut, brinjal, cardamom, tea, coffee. Pollinators,
6	2	Destroyers of insect pests, Serve as food, Destroyers of weeds, Improve soil fertility.
7	3	Life cycles of arthropod vectors - ticks, mites and fleas. Vector borne diseases: malaria, filariasis, dengue. Vector control- Chemical, Biological, Genetic and Environmental.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Insecticide resistance in vectors. Drug resistance in pathogens. Importance of education, awareness and Community participation.
9	4	Productive Insects (a) Honey bee: Apiculture and its scope; life history, Bee products- Honey and Bee wax, and Uses, Bee diseases.
10	4	(b) Silk moth: Different types of silkworms, life cycle; Sericulture, uses of silk, silk worm diseases.
11	4	(c) Lac insect: Different strains of Lac insects, uses of lac.
12	5	Pest control methods and application: cultural, mechanical, biological and chemical methods – classification of pesticides.
13	5	First Aid & precautions in handling pesticides – pesticide spraying appliances.
14	5	Residual effects of pesticides on non target organisms.
15	5	Pesticide industry- production and marketing –Integrated pest management, its importance & applications.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19AZMB42 : APPLIED ENTOMOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Entomology - Definition – classification upto orders - scope.
2	1	Agricultural entomology, Forest entomology, Veterinary entomology.
3	1	Medical entomology, Forensic entomology, Industrial entomology.
4	2	Agricultural entomology Pest identification marks, nature, symptoms of damage.
5	2	Any three pests - rice, Maize, pulses, sugar cane, cotton, coconut, ground nut, brinjal.
6	2	cardamom, tea, coffee. Pollinators, Destroyers of insect pests, Serve as food, Destroyers of weeds, Improve soil fertility.
7	3	Medical entomology- Life cycles of arthropod vectors - ticks, mites and fleas..Insecticide resistance in vectors.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Vector borne diseases: malaria, filariasis, dengue. Vector control- Chemical, Biological, Genetic and Environmental
9	3	Drug resistance in pathogens.Importance of education, awareness and Community participation.
10	4	Industrial Entomology Productive Insects - Honey bee: Apiculture and its scope; life history, Bee products- Honey and Bee wax, and Uses, Bee diseases.
11	4	Silk moth: Different types of silkworms, life cycle; Sericulture, uses of silk, silk worm diseases.
12	4	Lac insect: Different strains of Lac insects, uses of lac.
13	5	Pest control methods and application: cultural, mechanical, biological and chemical methods.
14	5	Classification of pesticides. First Aid & precautions in handling pesticides – pesticide spraying appliances.Residual effects of pesticides on non target organisms.
15	5	Pesticide industry- production and marketing –Integrated pest management, its importance & applications.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19AZMP42 : ALLIED ZOOLOGY PRACTICAL - II</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Methods of insect collection and preservation - Submission of insect box, Field visit.
2	1	Identification of at least 10 insects belonging to different orders.
3	1	Mounting of salivary gland of cockroach, mouth parts of cockroach, housefly, and mosquito.
4	2	Mounting of different types of antennae and legs of insects, wings and their venation.
5	2	Demonstration of digestive- Cockroach
6	2	Reproductive male and female - Cockroach
7	3	Nervous system of insects - Cockroach

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cockroach mouth parts
9	3	House fly mouth parts
10	4	Histological slides –T.S of testis.
11	4	L.S. of ovary and types.
12	4	T.S. of carpus cardiacum.
13	5	T.S. of carpus allatum.
14	5	Life history of silkworm (egg, larva, cocoon and adult).
15	5	Identification of honey bee sting Identification of honey bees, drone, workers and queen.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAJI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>19MB305 : Immunology</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Infection - Classification of infections, Source of infection, Methods of transmission of infection, Factors predisposing to microbial pathogenicity, Types of infectious diseases –
2	1	Immunity - Innate or native immunity, Factors affecting innate immunity, Mechanisms of innate immunity, Acquired or adaptive immunity, Active immunity, Passive immunity, Local immunity, Herd immunity
3	2	Antigens - Types of antigens, Determinants of antigenicity, Biological classes of antigens, Determinants recognized by the innate immune system
4	2	Antibodies – Immunoglobulins - Antibody Structure, Enzyme digestion, Immunoglobulin chains, Immunoglobulin domains, Hyper variable and framework regions, Constant region domains, Hinge region,
5	2	Immunoglobulin classes, Abnormal Immunoglobulins, Immunoglobulin specificities, Antibody diversity, Class switching
6	3	Antigen – Antibody Reactions - Serological reactions, Precipitation reaction, Mechanism of precipitation, Agglutination reaction
7	3	Complement System - General properties, Components, Complement activation, Classical complement pathway, Alternative complement pathway, Lectin complement pathway, Regulation of complement activation,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Biological effects of complement, Quantitation of complement and its components, Biosynthesis of complement, Deficiencies of the complement system
9	4	Structure and Functions of Immune Cells & Organs - The lymphoid system, Central (primary) lymphoid organs, Thymus, Bone marrow, Peripheral (secondary) lymphoid organs, Lymph nodes, Spleen,
10	4	, Cells of the lympho reticular system, Lymphocytes, T – Cell maturation, T cell receptors, Types of T cells, B – Cell maturation, Null cells, Phagocytic cells, Abnormalities of immune cells, Major histocompatibility complex (MHC), Classes of protein...
11	4	Immune Response - Humoral Immune Response (Antibody Mediated), Primary and secondary responses, Fate of antigen in tissues, Production of antibodies, Cellular Immune Response
12	4	mediated immunity (CMI), Induction of cell – mediated immunity (CMI), Cytokines, Detection of cell mediated immunity (CMI), Transfer Factor, Immunological Tolerance, Theories of Immune Response
13	5	Hypersensitivity - Classification of hypersensitivity reactions, Type I Reactions (IgE dependent), Anaphylaxis, Atopy, Type II reactions: cytolytic and cytotoxic,
14	5	TypeIII reactions: immune complex diseases, Arthus reaction, Serum sickness, Type IV reactions: Delayed Hypersensitivity, Tuberculin (Infection) type, transplantation and malignancy autoimmune deficiencies
15	5	Cutaneous basophil hypersensitivity, Contact dermatitis type, Type v reactions (stimulatory hypersensitivity), Shwartzman reaction ABOBlood grpuping

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PARIMALA CELIA M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19MB510 : MEDICAL BACTERIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General attributes and virulence factors of bacteria causing infections - Morphology, classification, cultural characteristics, pathogenicity, laboratory diagnosis and prevention of infections caused by the organism - Staphylococci,
2	1	Streptococci and Pneumococci
3	1	Neisseria meningitidis, N. gonorrhoea and Corynebacteria
4	2	Escherichia coli and Klebsiella
5	2	Salmonella typhi, S. paratyphi A and S. paratyphi B
6	2	Shigella, Proteus, Vibrio cholerae, Pseudomonas
7	3	Bacillus anthracis, Clostridium perfringenes,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cl. Tetani, Cl. botulinum, Mycobacterium tuberculosis,
9	3	M. leprae, Atypical Mycobacteria
10	4	Yersinia, Haemophilus,
11	4	Helicobacter, Francisella, Brucella
12	4	Bordetella, Legionella, Listeria
13	5	Rickettsiae, Chlamydia
14	5	Spirochaetes, Mycoplasma
15	5	Actinomycetes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PARIMALA CELIA M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19MB616 : BIOTECHNOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition and history - Recombinant DNA technology, Restriction endonucleases
2	1	Cloning vectors -- pBR 322 -Cosmids - M13 phage vector and its applications
3	1	-DNA ligation
4	2	Chemical synthesis of DNA - DNA sequencing
5	2	Hybridisation techniques, Southern and Northern blotting techniques
6	2	Colony hybridization - PCR -Genomic library
7	3	Enzyme technology - Enzyme immobilisation, Products Applications

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	–Biofuel - Hydrogen gas as fuel from Microorganisms
9	3	Biodiesel
10	4	Genetic engineering of plants - Electroporation - Gene gun
11	4	Particle bombardment - Ti plasmid vectors - Cauliflower mosaic virus as cloning vector Applications
12	4	Transgenic plants - Insect resistant, Stress tolerant, Virus resistant plants, genetically modified foods
13	5	Transgenic animals - Retroviral vector method
14	5	DNA micro injection method –Applications of rDNA technology
15	5	Recombinant products – insulin, tPA, vaccines - Gene therapy - Patents - IPR

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19EMB51A : ENVIRONMENTAL MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Microbiology of air —Droplet. droplet nuclei, aerosols - air sanitation
2	1	Air borne diseases- Microflora of water-lakes, ponds, rivers, ocean,
3	1	Microflora of water-Estuary, ground water - Waterborne diseases- Eutrophication
4	2	Waste water treatment - primary. secondary (anaerobic and aerobic- trickling filter,
5	2	Activated sludge. oxidation pond - Sludge digestion- Disposal of sludge
6	2	Drinking water treatment- chlorination - Microbiological standards of water
7	3	Water pollution — indicators of water pollution -BOD, COD

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Techniques for the study of water pollution-Composting
9	3	Bioremediation-types, importance, advantages and applications
10	4	Microorganisms in extreme environment — Applications of extremophiles
11	4	Bioleaching; Microbial biofilm-Biochemistry of microbial biofilm
12	4	,Beneficial and harmful roles of biofilm
13	5	Interactions among microbial populations (Neutralism, commensalism, parasitism, antagonism)
14	5	Microbial diversity, recent technique to study non-cultivable microbes
15	5	Applications, advantages and limitations of the technique used to study non-cultivable microbes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19MB614 : MEDICAL VIROLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General properties of viruses-Cultivation of viruses-Virus - host interactions
2	1	Classification and Nomenclature of viruses-Prions
3	1	Antiviral agents- viral vaccines- mode of transmission of Viruses
4	2	Pox viruses
5	2	Herpes viruses
6	2	Adeno viruses-Picorna viruses
7	3	Orthomyxoviruses

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Paramyxoviruses
9	3	Corona Viruses
10	4	Arboviruses
11	4	Rhabdoviruses
12	4	Hepatitis viruses
13	5	Rubella viruses
14	5	Rota viruses- Oncogenic viruses
15	5	Retro viruses

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19MB509 : FOOD &amp; DAIRY MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Food as a substrate for microorganisms - Microorganisms important in food microbiology - Principles of food preservation - asepsis
2	1	- removal of microorganisms - high temperature - low temperature
3	1	-drying- food additives - radiation
4	2	Contamination, spoilage and preservation of - vegetables and fruits
5	2	meat and meat products, fish and sea food
6	2	poultry products, canned food.
7	3	Food fermentations – bread, malted beverages



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	idly, fermented vegetables, pickles
9	3	Oriental fermented foods- Probiotics: definition, types of microorganisms and health benefits
10	4	Milk and milk products - fermented dairy products - butter, cheese
11	4	yogurt, acidophilus milk; Spoilage and defects of fermented dairy products; Milk-borne diseases
12	4	Microbiological analysis of milk – dye reduction test, total bacterial count; Applications of microbial enzymes in dairy industry (Proteases and Lipases).
13	5	Food-borne infections and intoxications - bacterial, non-bacterial
14	5	laboratory methods for detection of food borne pathogens (cultural and rapid method)
15	5	Food plant sanitation - quality control - HACCP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19EMB62A : COMPUTER APPLICATIONS IN BIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to computers – Types of computers – Generation
2	1	Applications of computers – Input and Output devices – ROM, RAM
3	1	Internet: Types of Network – LAN, WAN & MAN - Web services - World Wide Web, URL - Uses of Internet
4	2	Introduction to Bioinformatics – Definition – Biological databases (generalized and specialized)
5	2	– Literature database (PubMed, BioMed Central) - Nucleic acid sequence databases (EMBL, NCBI, DDBJ)
6	2	– sequence format (GenBank, FASTA format) – Protein sequence databases (SWISS-PROT, PIR) – Structure databases (PDB)
7	3	Sequence alignment: Similarity, identity and homology – Pairwise Alignment, gaps, gap- penalties

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	– Basic concepts of scoring matrices – PAM and BLOSUM - Global vs. local alignment
9	3	– Dot-matrix representation – BLAST – multiple sequence alignment (CLUSTAL W)
10	4	Phylogenetic analysis (phylogenetic tree, softwares) – Gene finding (methods and tools)
11	4	- Protein prediction – Molecular visualization (tools, RasMol, Chime)
12	4	- Automated DNA Sequencing – Human Genome Project
13	5	Concept of Genomics and Proteomics – Comparative genomics – Functional genomics
14	5	– DNA micro arrays – Protein arrays
15	5	Metagenomics, Cheminformatics – definition, tools used and applications.

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19MB512 : INDUSTRIAL MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General concepts of industrial microbiology, screening and strain development strategies
2	1	raw materials used in media production media optimization –
3	1	foaming - fermentation equipment and its uses – types of fermenters
4	2	Types of fermentation - batch, continuous, dual or multiple, surface, submerged, aerobic, anaerobic
5	2	Downstream process – recovery and purification of products
6	2	sterilization – development of inocula - scale up processes, Methods of achieving sterility
7	3	Primary and Secondary Metabolites- Catabolic- anabolic products, Trophophase - idiophase

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Relationships in the Production of Secondary products, Production of alcohol and beverages – Ethanol, beer and wine, vinegar
9	3	Single cell proteins - Organic acids - lactic acid, citric acid, acetic acid - Steroid transformations
10	4	Industrial production of enzymes - amylase, proteinase,
11	4	cellulase - Amino acid production
12	4	glutamic acid and lysine
13	5	Production of antibiotics - penicillin, tetracycline, streptomycin –
14	5	Role of precursors - Production of Vitamins - riboflavin,
15	5	cyanocobalamin, Production of bacterial insecticide.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19MB615 : MEDICAL MYCOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – General properties of fungi – Morphological classification of fungi
2	1	Classification of fungal diseases - Pathogenesis of fungal infection
3	1	Laboratory diagnosis of fungal disease – Antifungal therapy
4	2	Superficial mycoses – Pityriasis versicolor, Tinea nigra
5	2	Black piedra, White piedra
6	2	Cutaneous mycoses - Dermatophytosis
7	3	Subcutaneous mycoses – Mycetoma,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sporotrichosis, Chromoblastomycosis
9	3	Rhinosporidiosis
10	4	Systemic mycoses – Histoplasmosis
11	4	Blastomycosis, Coccidioidomycosis,
12	4	Paracoccidioidomycosis, Cryptococcosis
13	5	Opportunistic mycoses – Candidiasis,
14	5	Aspergillosis, Penicillosis
15	5	Zygomycosis, Mycotoxicoses

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SWAMINATHAN C Dr	Academic Year	2022-2023
Department	Micro Biology	Semester	5
Subject	19MB511 : MEDICAL PARASITOLOGY	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Classes of parasites - Classes of hosts - Host parasite relationship
2	1	Sources of infection - Modes of transmission - Pathogenesis
3	1	Laboratory diagnosis of parasitic diseases - Treatment
4	2	Entamoeba histolytica, Naegleria fowleri
5	2	Giardia lamblia, Trichomonas vaginalis
6	2	Leishmania donovani, Trypanosoma brucei complex
7	3	Plasmodium species



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Toxoplasma gondii, Cryptosporidium parvum
9	3	Isospora belli, Balantidium coli
10	4	Taenia saginata, Taenia solium
11	4	Schistosoma haematobium, Fasciola hepatica
12	4	Fasciolopsis buski
13	5	Trichuris trichiura, Ancylostoma duodenale
14	5	Ascaris lumbricoides, Enterobius vermicularis
15	5	Wuchereria bancrofti

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V. Ramalingam Pillai - Tamilan Idayam (Prathani) Pavalaru Paruchiyhiranar - Kanicharu
4	1	Kanadasan - Thavru - manipu
5	5	Ilakanan - Muthal Ezuthu Sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Tamizhanban - Vetrinugam Vairamuthu - Suthanthuram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendiru Kavithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathi - orunal Kazinthzthu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 PALLAVAR KAALAM - ILAKKIYANGAL
2	1	1.1 VALLALAR - THIRUVARUT KODAI (4798, 4799, 4802) 1.2 THIRUNANA SAMBANTHAR MUDHAL THIRUMURAI - THIRU AALAVAUM (VINA VURAI) NATTAPAADAI (65,66,67)
3	1	1.3 PERIYAZHVAR - THIRUPALLAANDU (1-10) 1.4 NAMMAZHVAAR - PATHAM THIRUVAAIMOZHI (1-5)
4	1	1.5 VANNAKALANJIYA PULAVAR - KUTHPUNAYAGA PURANAM, THEEN VILAKKAM 9172,11490 1.6 VETHANAYAMPILLAI - NEETHI NOOL (421, 89, 90)
5	4	4.4 URAINADAI - THOTRAMUM VALARCHIYUM
6	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)
7	3	PADAIPUGAL - PAAVAANAR NOKKIL 3.1 PAAVAANAR PERUMAKKAL (1 - 6)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.1 PAAVAANAR PADAIPUGAL - PAAVAANAR NOKKIL PERUMAKKAL (12 - 16)
9	4	4.2 NAAYAKAR KAALAM - THOTRAMUM VALARCHIYUM
10	2	2.1 PALAPATTADAI SOKKANAATHA PULAVAR - AZHAGAR KILLAI VIDU THOOTHU (KILIYAI VILITHAL) 2.2 PAGAZHI KOOTHAR - THIRUCHENTHOOR MURUGAN PILLAI THAMIZH (MUTHAPARUVAM 1-2)
11	2	2.3 KUMARAKURUPARAR - MATHURAI MEENATCHI AMMAI IRATTAI MANIMAALAI (KATTALAI KALITHURAI 2 SONG)
12	4	4.3 SITHAR ILAKKIYAM - ARIMUGAM
13	2	2.4 ARUNAGINAATHAR - THIRUPUGAZH (THIRUCHENDUR) 2.5 PATINATHAR - THIRUTHILLAI (1-5)
14	2	2.5 PATINATHAR - THIRUTHILLAI (6-10) 2.6 SIVAVAAKIYAR - PADAL 9,10,11
15	5	5.1 YAAPPILAKANAM (EZHUTHU, ASAI, SEER, ADI) 5.2 VETRUPORUL VAIPPU ANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BAKKTHI ILLAKKIYANGAL VALLALAR - THIRUVARUL KODAI 4798, 4799, 4802 THIRUGHNANA SAMBANDER - MUTHAL THIRUMURAI, THIRUAALAVAYUM- NATTAPPADAI 65,66,67
2	1	PEREYAZHVAR - THIRUPPALLANDU 1-10 NAMMAZHVAR , THIRUVAAIMOZHI 10, 1-5
3	1	VANNAKALANGIYAPPULAVAR - KUTHPPUNAAAYAGA PURANAM, THEENVILAKKAM 172, 1149 VETHANAYAGAM PILLAI- NEETHI NOOL 421, 89, 90
4	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 1-4 THALAPPUGAL
5	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 5-8 THALAPPUGAL
6	4	ILLAKKIYAVARALARU PALLAVER KAALUM THOTTRAMUM VALERCHIYUM
7	4	ILLAKKIYA VARALARU- URAINADAI THOTTRAMUM VALARCHIYUM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	SITRELAKKIYANGAL , SITHER ILAKKIYANGAL PALAPPATTADAI SOKKANATHAP PULAVER - AZHAGER KILLAI VIDU THOOTHU PAGAZHIKKOOTHER - THIRUSENTHOOR MURUGAN PILLAITHAMUZH
9	2	KUMARAKURUBARAER - MADURAI MEENATCHIYAMMAI IRATTAI MANIMAALAI KATTALAI KALITHURAIYIL 2 PAADALGAL ARUNAGIRENATHER THIRUPPUGAZH- THIRUSENTHOOR
10	2	PATTINATHAR -THIRUTHILLAI 1-10 PAADALGAL
11	2	SIVAVAAKKIYAR 9,10,11 PAADALGAL
12	4	ILLAKKIYA VARALARIL NAAYAKKER KAALAM THOTTRAMUM VALARCHIYUM
13	4	SITHER ILLAKKIYAM THOTTRAMUM VALARCHIYUM
14	5	ILLAKKANAM YAAPPILAKKANAM -EZHUTHU, ASAI, SEER, ADI-URUPPUGAL
15	5	ILLAKKANAM VETTRUPPORUL VAIPPANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irupatham nootrandu kavingargal.
2	1	Bharathiyar-Kaani Nilam Vendum, Bharathidasan-Nattiyal Nattuvom.
3	1	Namakkal kavignar-Tamizan Idhayam.Perunchithiranar-Kanisaru.
4	1	Kannadasan-Tavaru Mannippu,Suratha-Malatai.
5	5	Mudhal Ezhuthukal,Sarbu Ezhuthukal.
6	5	Vallinam Migum Idangal,Vallinam Miga Idangal.
7	3	Puthukavithai thotramum valarchiyum.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi-pootha neruppu,Meera-pillaitamil.
9	2	Erode Tamilanban-Vetri mugam, Vairamuthu+Suthanthiram.
10	2	Cirpi-Abdul kalam in veenai.
11	2	Haikku Kavitaikal.
12	2	Senrya Kavitaikal.
13	3	Sirukathi thotramum valarchiyum.
14	4	Kadavulum kandasamy pillaiyum,Oru naal kazhinthathu.
15	4	Kalanum kizhaviyum,Akalyai.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sound - consonants 1.Meeting people, exchanging greetings & taking leave 2.Introducing people to others
2	1	Prose: Forgetting- Robert Lynd 1.Letter - writing - informal letters 2.The sentence 3.Parts of speech
3	2	Speech sounds - pure vowels 1.Giving personal information 2.Talking about people
4	2	Poem: Mending Wall - Robert Frost 1.Letter - writing- formal letters 2.Nouns - Classes and Gender 3.Nouns - Number and case 4.Adjectives 5.Comparison of Adjectives
5	3	Diphthongs 1.Taking and leaving messages 2.Making enquiries on the phone
6	3	Poem : Time and Love - William Shakespeare 1.Dialogue writing 2.Articles 3.Pronouns- personal, reflexive and emphatic 4.Pronouns - Demonstrative, Indefinite, interrogative, Distributive and Reciprocal 5.Pronouns- Relative
8	4	Phonetic transcription ( words ) Answering the telephone and asking for someone

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	1.Prose : Mother Teresa - John Frazer 2. One - Act Play: The Best Laid Plans - Farrel Mitchell
10	4	1.Reading comprehension 2.Verbs - Transitive and Intransitive 3.Verbs - Active and Passive Voices
11	5	Voiced and voiceless sounds Dealing with a wrong number
12	5	Short story : The Selfish Giant - Oscar Wilde
13	5	1.Verbs - Mood and Tense 2.Concord or Agreement of the Verbs with the subject
7	0	I CIA EXAMINATIONS
14	0	II CIA EXAMINATIONS
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Triphthongs Making Requests and Responding to Requests Thanking Someone and Responding to Thanks How to be a Doctor
2	1	How to be a Doctor Precis Writing Non-Finite Verbs Strong and Weak Verbs
3	2	Strong and Weak Forms in Transcription Inviting and Accepting and Refusing and Invitation Apologising and Responding to an Apology Auguries of Innocence
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Articles
5	3	The Relationship between Spelling and Sound Paying Compliments, Showing Appreciation, Offering Encouragement and Responding to them Asking for, Giving and Refusing Permission
6	3	My Vision for India Report Writing Punctuation and Capitals
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Sentence Transcription Describing Daily Routines Poem: If
9	4	The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for Directions and giving directions
12	5	Biography-Kiran Bedi
13	5	Use of Wrong Tenses The uses of Prefixes and Suffixes
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>19MB102 : MICROBIAL TAXONOMY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Classification Hacked's , Whitaker's , Prokaryotes and Eukaryotes
2	1	Evaluation microorganisms, Taxonomical ranks
3	1	Binomial nomenclature, characters used in taxonomy
4	2	Outline of bacterial classification according to bergey's manual, brief account of important group of bacteria
5	2	Archaeobacteria, Spirochetes, Mycoplasma, Actinomycetes, Photosynthetic bacteria
6	2	Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria.
7	3	Fungi – characteristics, morphology, reproduction, physiology, classification – Fungi of special interest

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Mucor, Rhizopus, Penicillium, Neurospora, Agaricus
9	3	Saccharomyces, Candida, Lichens, mycorrhiza
10	4	Algae -occurrence, importance, characteristics, classification – Algae of special interest – Chlamydomonas
11	4	Euglena, Volvox, diatoms – Protozoa - occurrence, free-living, symbiotic,
12	4	Morphology, reproduction, classification – Protozoa of special interest – Amoeba, Paramecium
13	5	Viruses - general characteristics, morphology, classification
14	5	viruses of bacteria, plants, animals, human beings
15	5	T4 phage, TMV, rabies, HIV as examples.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>19MB204 : MICROBIAL METABOLISM</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Principles of energetics
2	1	oxidation-reduction reaction
3	1	respiratory chain
4	2	Energy production by anaerobic process - Glycolysis,
5	2	Pentose phosphate pathway, ED Pathway,
6	2	Fermentation
7	3	Energy production by aerobic process -TCA,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	catabolism of lipids,
9	3	catabolism of proteins
10	4	Energy production by aerobic process (respiration without oxygen,
11	4	heterotrophic CO <sub>2</sub> fixation,
12	4	glyoxylate cycle
13	5	Energy production by photosynthesis (cyclic, non-cyclic),
14	5	Mechanism of ATP synthesis
15	5	Bioluminescence

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>19ABCP22 : BIOCHEMISTRY PRACTICAL</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Estimation of glycine by Sorenson titration method
2	2	Estimation of Ascorbic acid
3	2	Estimation of Glucose
4	2	Estimation of hemoglobin
5	2	Determination of ESR
6	2	Bleeding time
7	2	Clotting time

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Blood Grouping (Batch-I)
9	2	Blood Grouping (Batch-II)
10	2	Revision
11	2	Revision
12	2	Revision
13	2	Revision
14	2	Model practical exam 1
15	2	Model practical exam 1

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>19ABC202 : ADVANCED BIOCHEMISTRY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Carbohydrate metabolism: Glycolysis and its energetics
2	1	Kreb's Cycle and its energetics
3	1	Hexose Mono Phosphate Shunt
4	1	Gluconeogenesis
5	1	Catabolism of amino acids: Transamination and deamination
6	1	Urea Cycle
7	3	Jaundice and its significance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Obesity causes and its significance
9	3	Diabetes causes, treatment and its significance
10	3	Gout
11	5	Isozymes, Plasma and non functional enzymes, myocardial infarction
12	5	TG, Protein, Glucose, Urea normal value and its significance
13	5	Revision
14	2	Revision
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SHEELA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>19MB101 : FUNDAMENTALS OF MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - History (Discoveries - Contributions of Women Scientists in microbiology.
2	1	Scope of Microbiology - Employability in Microbiology
3	1	Employability in Microbiology (Job opportunities and Entrepreneurship)
4	2	Morphology - Shape, size, arrangement of Bacteria - Structure of bacterial cell
5	2	Structure and functions of cell organelles (Cell wall, structures found outside the cell wall and within the cell wall) - Structure of Endospore
6	2	(Cell wall, structures found outside the cell wall and within the cell wall) - Structure of Endospore
7	3	Microscopy - Simple, Compound, Dark-field, Phase-contrast, Fluorescent.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Compound, Dark-field, Phase-contrast, Fluorescent, Electron Microscopes .
9	3	Stains and dyes – staining methods.
10	4	Sterilization - Physical agents - High temperature, Low temperature, Desiccation.
11	4	Sterilization - Physical agents - High temperature, Low temperature, Desiccation.
12	4	Sterilization - Osmotic pressure, Radiation, Filtration
13	5	Sterilization - Chemical agents - Phenols and phenolic compounds, Alcohols, Halogens
14	5	Heavy metals and their compounds, Dyes, Synthetic detergents, Quaternary ammonium compounds, Aldehydes, Gaseous agents
15	5	Antibiotics - Classification, Mode of action – Antifungal and antiviral agents.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - Imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumarani Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumarani Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	Pirakapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	KIiruthava Kapiyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Illamkudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukamdam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIADOSS S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources.
2	1	Over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	Ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem,
6	2	Grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	Solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	Ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19AMP404 : ALLIED PRACTICAL - MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Major Practical 1. Methods of insect collection and preservation - Submission of insect box, Field visit.
2	2	2. Identification of at least 10 insects belonging to different orders.
3	2	2. Identification of at least 10 insects belonging to different orders.
4	2	2. Identification of at least 10 insects belonging to different orders.
5	3	3. Mounting of salivary gland of cockroach, mouth parts of cockroach, housefly, and mosquito.
6	3	3. Mounting of salivary gland of cockroach, mouth parts of cockroach, housefly, and mosquito.
7	3	3. Mounting of salivary gland of cockroach, mouth parts of cockroach, housefly, and mosquito.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4. Mounting of different types of antennae and legs of insects, wings and their venation.
9	4	4. Mounting of different types of antennae and legs of insects, wings and their venation.
10	4	4. Mounting of different types of antennae and legs of insects, wings and their venation.
11	5	5. Demonstration of digestive, reproductive (male and female) and nervous system of insects (Cockroach or Odontopus).
12	5	5. Demonstration of digestive, reproductive (male and female) and nervous system of insects (Cockroach or Odontopus).
13	6	Spotters 1. Histological slides –T.S of testis, L.S. of ovary and types, T.S. of carpus cardiacum and T.S. of carpus allatum.
14	6	2. Life history of silkworm (egg, larva, cocoon and adult).
15	6	3. Identification of honey bee sting Identification of honey bees, drone, workers and queen.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>19AZMP31 : ALLIED ZOOLOGY PRACTICAL - I</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Genetics Squash preparation of Salivary glands of chironomous larva (Giant chromosome).
2	1	Squash preparation of Salivary glands of chironomous larva (Giant chromosome).
3	1	Squash preparation of Salivary glands of chironomous larva (Giant chromosome).
4	2	Male & Female identification of Drosophila.
5	2	Male & Female identification of Drosophila.
6	2	Male & Female identification of Drosophila.
7	3	Observation of common Mutants of Drosophila.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Observation of common Mutants of Drosophila.
9	4	Human Blood Grouping
10	4	Human Blood Grouping
11	4	Human pedigree construction for a family data
12	4	Human pedigree construction for a family data
13	5	Biostatistics Mean, Median, Mode and Standard deviation.
14	5	Mean, Median, Mode and Standard deviation.
15	5	Correlation and Regression Analysis.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Imberun kappiyangal
2	4	Insru kappiyangal
3	4	Rettai kappiyangal
4	1	Silappathiharam
5	1	Mani megalai
6	1	Mani megalai kk
7	2	Seevaga sinthamani

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai -. Pothukkatturai
9	4	Pira kappiyangal
10	2	Kambaramayanam
11	4	Kirithuva kappiyangal
12	4	Islamiya kapiyangal
13	3	Periya puranam
14	3	Thembavani
15	3	Seera puranam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Yettuth thogai
2	1	Purananooru 184,204 Agananooru 219,351
3	1	Kurun thogai 20,210 Natrinai 21,86
4	1	Ayingru nooru 1-5 Kalith thogai 5
5	2	Pari padal 71-1
6	4	Pathinen keezh kanakku noolgal
7	3	Virunthobal 1-10 Kallamai 1-5



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Kallamai 6-10 Kuripparithal 1-10
9	4	Pathu pattu
10	2	Sirubanatru padai
11	2	Mullai pattu
12	2	Madhuri kanji
13	2	Pattinapalai 1-25
14	2	Pattinapalai 26-59
15	5	Mozhi thiran payirchigal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHN BOSCO M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>NCMED401 : ENTREPRENEURIAL DEVELOPMENT</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Entrepreneurship: Meaning-Definition-Characteristics-Qualities-Types
2	1	Roles of an Entrepreneur - Women Entrepreneur: Concept and Definition –
3	1	Challenges and Opportunities of Women Entrepreneurs
4	2	EDP: Meaning-Needs-Objectives –
5	2	Course Contents and Curriculum-Phases of EDP--
6	2	Organisations providing Entrepreneurship Development Programmes.
7	3	Opportunity Identification and Selection -Meaning-Need for Opportunity Identification and Selection

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	– Business Opportunities in Various Sectors-Sources of Business Ideas - Idea Generation Techniques-Product Identification-
9	3	Opportunity Selection- Steps in setting up a Small Enterprise.
10	4	Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance-
11	4	Various Institutions supporting Entrepreneurial growth –
12	4	Subsidies available to Entrepreneurs.
13	5	MSMEs- Meaning and Classifications-Memorandum of MSMEs-Registration of
14	5	MSMEsMUDRA Scheme-Prime Minister’s Employment Generation Programme (PMEGP)-
15	5	STANDUP INDIA and START-UP INDIA- Make in India

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1 SEEVASINTHAMANI - NATTUVALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUYA KAAPİYAM
12	4	4.4. ISLAMİYA KAAPİYAM
13	3	3.1. PERİYAPURĀNAM - ILLĀYĀNKUDI MAARĀNĀYĀNĀR PURĀNAM
14	3	THEMPĀAVĀNI - SETHĀION VTRI PADĀLAM
15	3	SEERĀAPURĀNAM - KĀĀMAPĀDĀLAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRAKASH J Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	19MB305 : Immunology	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Infection - Classification of infections, Source of infection, Methods of transmission of infection, Factors predisposing to microbial pathogenicity
2	1	Types of infectious diseases – Immunity - Innate or native immunity, Factors affecting innate immunity
3	1	Mechanisms of innate immunity, Acquired or adaptive immunity, Active immunity, Passive immunity, Local immunity, Herd immunity
4	2	Antigens - Types of antigens, Determinants of antigenicity, Biological classes of antigens, Determinants recognized by the innate immune system.
5	2	Antibodies – Immunoglobulins - Antibody Structure, Enzyme digestion, Immunoglobulin chains, Immunoglobulin domains, Hyper variable and framework regions, Constant region domains
6	2	Hinge region, Immunoglobulin classes, Abnormal Immunoglobulins, Immunoglobulin specificities, Antibody diversity, Class switching
7	3	Antigen – Antibody Reactions - Serological reactions, Precipitation reaction, Mechanism of precipitation, Agglutination reaction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Complement System - General properties, Components, Complement activation, Classical complement pathway, Alternative complement pathway, Lectin complement pathway
9	3	Regulation of complement activation, Biological effects of complement, Quantitation of complement and its components, Biosynthesis of complement, Deficiencies of the complement system
10	4	The lymphoid system, Central (primary) lymphoid organs, Thymus, Bone marrow, Peripheral (secondary) lymphoid organs, Lymph nodes, Spleen, Cells of the lympho reticular system, Lymphocytes, T – Cell maturation, T cell receptors, Types of T cells,
11	4	B – Cell maturation, Null cells, Phagocytic cells, Abnormalities of immune cells, Major histocompatibility complex (MHC), Classes of proteins, HLA complex, HLA typing, MHC restriction
12	4	Humoral Immune Response (Antibody Mediated), Primary and secondary responses, Fate of antigen in tissues, Production of antibodies, Cellular Immune Response, Scope of cell – mediated immunity (CMI)
13	5	Classification of hypersensitivity reactions, Type I Reactions (IgE dependent), Anaphylaxis, Atopy, Type II reactions: cytolytic and cytotoxic,
14	5	Type III reactions: immune complex diseases, Arthus reaction, Serum sickness, Type IV reactions:
15	5	Type IV reactions: Delayed Hypersensitivity, Tuberculin (Infection) type, Cutaneous basophil hypersensitivity, Contact dermatitis type, Type v reactions (stimulatory hypersensitivity), Shwartzman reaction

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRAKASH J Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	4
Subject	19MB407 : IMMUNOTECHNOLOGY	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Antigen – Antibody Reactions–Antigen-antibody titre - Complement fixation test (CFT), Neutralization tests, Opsonisation
2	1	Radioimmunoassay (RIA), Enzyme immunoassay (EIA), Enzyme linked immunosorbent assay (ELISA), Chemiluminescence immunoassay (CLIA)
3	1	Immuno-electroblot / Western blot techniques, Immunochromatographic tests, Immunoelectron microscopic tests, Immunofluorescence
4	2	Immunodeficiency Diseases - Primary immunodeficiencies, Disorders of specific immunity
5	2	Humoral immunodeficiencies, Cellular immunodeficiencies, Combined immunodeficiencies
6	2	Disorders of complement, Disorders of phagocytosis, Secondary immunodeficiencies
7	3	Autoimmunity - Mechanisms of autoimmunity, Classification of autoimmune diseases, Hemocytolytic autoimmune diseases



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Localised (organ – specific) autoimmune diseases, Systemic (non – organ specific) autoimmune diseases
9	3	Pathogenesis of autoimmune disease - Production of antibodies - Monoclonal antibodies, Factor influencing antibody production
10	4	Immunology of transplantation and malignancy - Immunology of transplantation, Classification of transplants, Types of grafts
11	4	allograft reaction, Histocompatibility antigens, Histocompatibility testing, Immunology of malignancy, Clinical evidence of immune response in malignancy
12	4	Tumour antigens, Immune response of malignancy, Immunological surveillance, Immunotherapy of cancer
13	5	Immunohematology - ABO blood group system, Rh blood group system, Other blood group system
14	5	Medical applications of blood groups, Blood transfusion, Hemolytic disease of the newborn
15	5	Detection of Rh antibodies, Identification of Rh incompatibility, ABO hemolytic disease.

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>19MB306 : Molecular Biology</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic concepts of Molecular biology: Nucleic acid as Genetic material- Griffith experiment
2	1	Hershey & Chase experiment; Central dogma of Molecular biology, structure and functions of Nucleic acid
3	1	Nucleosides and Nucleotides, purines and pyrimidines
4	2	Structure of DNA and RNA: Structure of DNA - Forms of DNA (A, B and Z)
5	2	Denaturation and renaturation of DNA - Structure of RNA
6	2	Types (t-RNA, r-RNA, m-RNA) - RNA as the genetic material.
7	3	Organization of prokaryotic genetic material - Plasmids

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Organization of eukaryotic genetic material - Chromosome
9	3	Transposons – Concept of gene – genetic code
10	4	Replication of DNA - Enzymology of replication
11	4	Mutation types – Mutagenic agents
12	4	carcinogenicity testing- DNA damage and repair
13	5	Gene expression – Detailed account of Transcription and Translation
14	5	Post-transcriptional modifications in prokaryotes and eukaryotes
15	5	Post-translational modifications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19MB408 : MICROBIAL GENETICS</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction; Bacterial plasmids; Gene transfer mechanisms - Bacterial Transformation
2	1	the discovery of transformation, detection of transformation – competence
3	1	DNA uptake – molecular mechanism of transformation – mapping by transformation.
4	2	Bacterial Conjugation – Insertion of F plasmid into the E. coli chromosome, Hfr Transfer,
5	2	Recombination in recipient cells, properties of systems lacking recombination proteins
6	2	The RecA, B, C proteins and their function – chromosome transfer in bacteria other than E. coli
7	3	Regulation of gene expression – common modes of regulation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	the E. coli Lactose system and the operon model
9	3	the tryptophan operon, a biosynthetic system. Autoregulation
10	4	Bacteriophages – General properties life cycle – counting phage – properties of a phage- infected bacterial culture – specificity in phage infection.
11	4	Host restriction and modification - Phage genetics I: phage T4 – Phage mutants, Genetic mapping of phage T4, features of the T4 life cycle.
12	4	Phage genetics II: phage ? – ? DNA and its gene organization, outline of the life cycle of ?, ? DNA replication and phage production, recombination in the ? life cycle.
13	5	Phage genetics III: Lysogeny – Immunity and repression – lysogenization and prophage insertion – prophage excision
14	5	Polylysogeny. Phage genetics IV: Transduction – DNA transfer by means of transduction
15	5	cotransduction and linkage – properties of specialized transducing particles.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust
14	5	wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock interview Actual interview Drama: Julius Caesar -funeral oration -william Shakespeare
2	1	Novel ( the count of Monte Cristo-Alexander Dumas chapter 1-10
3	2	Words often confused Seminar skills Drama Macbeth -he kills sleep -william Shakespeare
4	2	Idioms & phrase The count of Monte Cristo( chapter 11- 20)
5	3	Homonyms Tele conference Handling customers Clients Reciving visitors
6	3	Drama Henry 4 part 1 play out a play - William Shakespeare Novel: the count of Monte Cristo - Alexander Dumas (chapter 21-30)
7	4	ICIA Homophones Booking hotel accommodation Making small talk and telling story



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Drama As you like it Patterns of love - William Shakespeare Novel : the count of Monte Cristo - Alexander Dumas
9	4	Negotiable skills
10	5	Group discussion
11	5	Making appointments
12	5	Drama : Hamlet -churchyard - William Shakespeare
14	5	Writing Review of Books x
15	5	Revision
13	5	Novel : The count of Monte Cristo

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	Mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow -ecological succession – food chains, food webs and
5	2	ecological pyramids types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation
7	3	hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion
15	5	Environment and human health – Role of Information Technology in Environment and human health

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	19AZMB31 : CLASSICAL GENETICS & BIOSTATISTICS	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	History of genetics – Mendel's experiments: monohybrid, dihybrid Cross - hybrid vigour –
2	1	pleiotropism - epistasis - lethal genes – atavism –polygenic inheritance
3	1	Multiple Alleles and linkage - ABO Blood Group inheritance - Rh factor – linkage and linkage group.
4	2	Crossing over –Mechanism- factors controlling crossing over – mitotic and meiotic crossing over
5	2	somatic and germinal crossing over – significance of crossing over - construction of chromosome maps
6	2	chromosomes – size, shape, structure, types and physiology of chromosomes.
7	3	DNA as the genetic material – structure of DNA, euploidy - aneuploidy – chromosomal aberrations

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pedigree analysis – eugenics and euphenics – inbreeding, outbreeding and hybrid vigour - population genetics.
9	4	Introduction – Scope – Definition –Data collection – Methods of data collection – Classification of Data –
10	4	Tabulation of Data – Diagramatic, Graphical presentation of Data – Histogram – Frequency polygon – Oogive curves.
11	4	Measures of central tendency - Arithmetic mean – Median – Mode – standard deviation– mean deviation – skewness – kurtosis
12	5	Correlation – simple correlation – Rank correlation – Regression
13	5	Probability – Addition theorem – Multiplication theorem – Test of significance –
14	5	Hypothesis testing – Null hypothesis – Large sample test – small sample test (Students ‘t’ test) – chi-square test
15	5	standard error – ANOVA (Analysis of variance) – one way ANOVA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>19AZMB31 : CLASSICAL GENETICS &amp; BIOSTATISTICS</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Genetics and Mendel's laws: History of genetics – Mendel's experiments: monohybrid, dihybrid Cross.
2	1	Hybrid vigour – pleiotropism - epistasis - lethal genes – atavism –polygenic inheritance
3	1	Multiple Alleles and linkage - ABO Blood Group inheritance - Rh factor – linkage and linkage group.
4	2	Recombination in Eukaryotes: Crossing over –Mechanism-factors controlling crossing over.
5	2	mitotic and meiotic crossing over – somatic and germinal crossing over – significance of crossing over.
6	2	construction of chromosome maps –chromosomes – size, shape, structure, types and physiology of chromosomes.
7	3	Molecular, Human and cytogenetics: DNA as the genetic material – structure of DNA.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Euploidy - aneuploidy – chromosomal aberrations - Pedigree analysis
9	3	Eugenics and euphenics – inbreeding, outbreeding and hybrid vigour - population genetics.
10	4	BIO-STATISTICS Introduction – Scope – Definition –Data collection – Methods of data collection – Classification of Data.
11	4	Tabulation of Data – Diagramatic, Graphical presentation of Data – Histogram – Frequency polygon.
12	4	Oogive curves. Measures of central tendency - Arithmetic mean – Median – Mode – standard deviation– mean deviation – skewness – kurtosis.
13	5	Correlation – simple correlation – Rank correlation – Regression – Probability – Addition theorem.
14	5	Multiplication theorem – Test of significance – Hypothesis testing – Null hypothesis.
15	5	Large sample test – small sample test (Students ‘t’ test) – chi-square test – standard error ANOVA (Analysis of variance) – one way ANOVA.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19AZMB42 : APPLIED ENTOMOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Entomology - Definition – classification upto orders - scope.
2	1	Agricultural entomology, Forest entomology, Veterinary entomology.
3	1	Medical entomology, Forensic entomology, Industrial entomology.
4	2	Agricultural entomology Pest identification marks, nature, symptoms of damage.
5	2	Any three pests - rice, Maize, pulses, sugar cane, cotton, coconut, ground nut, brinjal.
6	2	cardamom, tea, coffee. Pollinators, Destroyers of insect pests, Serve as food, Destroyers of weeds, Improve soil fertility.
7	3	Medical entomology- Life cycles of arthropod vectors - ticks, mites and fleas..Insecticide resistance in vectors.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Vector borne diseases: malaria, filariasis, dengue. Vector control- Chemical, Biological, Genetic and Environmental
9	3	Drug resistance in pathogens.Importance of education, awareness and Community participation.
10	4	Industrial Entomology Productive Insects - Honey bee: Apiculture and its scope; life history, Bee products- Honey and Bee wax, and Uses, Bee diseases.
11	4	Silk moth: Different types of silkworms, life cycle; Sericulture, uses of silk, silk worm diseases.
12	4	Lac insect: Different strains of Lac insects, uses of lac.
13	5	Pest control methods and application: cultural, mechanical, biological and chemical methods.
14	5	Classification of pesticides. First Aid & precautions in handling pesticides – pesticide spraying appliances.Residual effects of pesticides on non target organisms.
15	5	Pesticide industry- production and marketing –Integrated pest management, its importance & applications.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>19AZMP42 : ALLIED ZOOLOGY PRACTICAL - II</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Methods of insect collection and preservation - Submission of insect box, Field visit.
2	1	Identification of at least 10 insects belonging to different orders.
3	1	Mounting of salivary gland of cockroach, mouth parts of cockroach, housefly, and mosquito.
4	2	Mounting of different types of antennae and legs of insects, wings and their venation.
5	2	Demonstration of digestive- Cockroach
6	2	Reproductive male and female - Cockroach
7	3	Nervous system of insects - Cockroach

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cockroach mouth parts
9	3	House fly mouth parts
10	4	Histological slides –T.S of testis.
11	4	L.S. of ovary and types.
12	4	T.S. of carpus cardiacum.
13	5	T.S. of carpus allatum.
14	5	Life history of silkworm (egg, larva, cocoon and adult).
15	5	Identification of honey bee sting Identification of honey bees, drone, workers and queen.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19EMB51A : ENVIRONMENTAL MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Microbiology of air —Droplet. droplet nuclei, aerosols - air sanitation
2	1	Air borne diseases- Microflora of water-lakes, ponds, rivers, ocean,
3	1	Microflora of water-Estuary, ground water - Waterborne diseases- Eutrophication
4	2	Waste water treatment - primary. secondary (anaerobic and aerobic- trickling filter,
5	2	Activated sludge. oxidation pond - Sludge digestion- Disposal of sludge
6	2	Drinking water treatment- chlorination - Microbiological standards of water
7	3	Water pollution — indicators of water pollution -BOD, COD

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Techniques for the study of water pollution-Composting
9	3	Bioremediation-types, importance, advantages and applications
10	4	Microorganisms in extreme environment — Applications of extremophiles
11	4	Bioleaching; Microbial biofilm-Biochemistry of microbial biofilm
12	4	,Beneficial and harmful roles of biofilm
13	5	Interactions among microbial populations (Neutralism, commensalism, parasitism, antagonism)
14	5	Microbial diversity, recent technique to study non-cultivable microbes
15	5	Applications, advantages and limitations of the technique used to study non-cultivable microbes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19MB616 : BIOTECHNOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Defenitions and history-Recombinant DNA technology
2	1	Restriction endonucleases-cloning vectors-pBR322
3	1	Cosmids-M13 phage vector and its applications- DNA ligation
4	2	Chemical synthesis of DNA-DNA sequencing
5	2	Hybridization techniques-Southern and northern blotting techniques-colony hybridization
6	2	PCR and Genomic library
7	3	Enzyme technology-enzyme immobilization, products, applications

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Biofuel-Hydrogen gas as fuel from microorganisms
9	3	Biodiesel
10	4	Genetic engineering of plants-electroporation- gene gun- particle bombardment
11	4	Ti plasmid vectors- Cauliflower mosaic virus as cloning vector- Applications
12	4	Transgenic plants-Insect resistant, Virus resistant plants- genetically modified foods
13	5	Transgenic animals-retroviral vector method-DNA microinjection method
14	5	Applications of rDNA technology-Recombinant products- Insulin, tPA, interferons
15	5	Gene therapy-patents-IPR

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19MB509 : FOOD &amp; DAIRY MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Food as a substrate for microorganisms - Microorganisms important in food microbiology - Principles of food preservation - asepsis
2	1	- removal of microorganisms - high temperature - low temperature
3	1	-drying- food additives - radiation
4	2	Contamination, spoilage and preservation of - vegetables and fruits
5	2	meat and meat products, fish and sea food
6	2	poultry products, canned food.
7	3	Food fermentations – bread, malted beverages



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	idly, fermented vegetables, pickles
9	3	Oriental fermented foods- Probiotics: definition, types of microorganisms and health benefits
10	4	Milk and milk products - fermented dairy products - butter, cheese
11	4	yogurt, acidophilus milk; Spoilage and defects of fermented dairy products; Milk-borne diseases
12	4	Microbiological analysis of milk – dye reduction test, total bacterial count; Applications of microbial enzymes in dairy industry (Proteases and Lipases).
13	5	Food-borne infections and intoxications - bacterial, non-bacterial
14	5	laboratory methods for detection of food borne pathogens (cultural and rapid method)
15	5	Food plant sanitation - quality control - HACCP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19EMB62A : COMPUTER APPLICATIONS IN BIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to computers – Types of computers – Generation
2	1	Applications of computers – Input and Output devices – ROM, RAM
3	1	Internet: Types of Network – LAN, WAN & MAN - Web services - World Wide Web, URL - Uses of Internet
4	2	Introduction to Bioinformatics – Definition – Biological databases (generalized and specialized)
5	2	– Literature database (PubMed, BioMed Central) - Nucleic acid sequence databases (EMBL, NCBI, DDBJ)
6	2	– sequence format (GenBank, FASTA format) – Protein sequence databases (SWISS-PROT, PIR) – Structure databases (PDB)
7	3	Sequence alignment: Similarity, identity and homology – Pairwise Alignment, gaps, gap- penalties

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	– Basic concepts of scoring matrices – PAM and BLOSUM - Global vs. local alignment
9	3	– Dot-matrix representation – BLAST – multiple sequence alignment (CLUSTAL W)
10	4	Phylogenetic analysis (phylogenetic tree, softwares) – Gene finding (methods and tools)
11	4	- Protein prediction – Molecular visualization (tools, RasMol, Chime)
12	4	- Automated DNA Sequencing – Human Genome Project
13	5	Concept of Genomics and Proteomics – Comparative genomics – Functional genomics
14	5	– DNA micro arrays – Protein arrays
15	5	Metagenomics, Cheminformatics – definition, tools used and applications.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19MB512 : INDUSTRIAL MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General concepts of industrial microbiology, screening and strain development strategies
2	1	Raw materials used in media production media optimization – foaming
3	1	Fermentation equipment and its uses – types of fermenters
4	2	Types of fermentation - batch, continuous, dual or multiple, surface, submerged, aerobic, anaerobic
5	2	Downstream process – recovery and purification of products – sterilization
6	2	Development of inocula - scale up processes, Methods of achieving sterility
7	3	Primary and Secondary Metabolites- Catabolic- anabolic products, Trophophase - idiophase Relationships in the Production of Secondary products

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Production of alcohol and beverages – Ethanol, beer and wine, vinegar - Single cell proteins
9	3	Organic acids - Lactic acid, Citric acid, Acetic acid - Steroid transformations
10	4	Industrial production of enzymes
11	4	Amylase, Proteinase, Cellulase
12	4	Amino acid production - Glutamic acid and Lysine
13	5	Production of antibiotics - penicillin, tetracycline, streptomycin
14	5	Role of precursors - Production of Vitamins - riboflavin
15	5	cyanocobalamin, Production of bacterial insecticide

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19MB615 : MEDICAL MYCOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – General properties of fungi – Morphological classification of fungi
2	1	Classification of fungal diseases - Pathogenesis of fungal infection
3	1	Laboratory diagnosis of fungal disease – Antifungal therapy
4	2	Superficial mycoses – Pityriasis versicolor
5	2	Tinea nigra, Black piedra, White piedra
6	2	Cutaneous mycoses - Dermatophytosis
7	3	Subcutaneous mycoses – Mycetoma

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sporotrichosis, Chromoblastomycosis
9	3	Chromoblastomycosis, Rhinosporidiosis
10	4	Systemic mycoses – Histoplasmosis
12	4	Paracoccidioidomycosis, Cryptococcosis
13	5	Opportunistic mycoses – Candidiasis
14	5	Aspergillosis, Penicillosis
15	5	Zygomycosis, Mycotoxicoses
11	4	Blastomycosis, Coccidioidomycosis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>5</b>
Subject	<b>19MB510 : MEDICAL BACTERIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General attributes and virulence factors of bacteria causing infections - Morphology, classification, cultural characteristics, pathogenicity, laboratory diagnosis and prevention of infections caused by the following organisms - Staphylococci
2	1	Streptococci, Pneumococci, Neisseria meningitidis
3	1	N. gonorrhoea, Corynebacteria.
4	2	Escherichia coli, Klebsiella, Salmonella typhi,
5	2	S. paratyphi A and S. paratyphi B, Shigella,
6	2	Proteus, Vibrio cholerae, Pseudomonas
7	3	Bacillus anthracis, Clostridium perfringens,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cl. Tetani, Cl. botulinum, Mycobacterium tuberculosis,
9	3	M. leprae, Atypical Mycobacteria
10	4	Yersinia, Haemophilus,
11	4	Helicobacter, Francisella, Brucella,
12	4	Bordetella, Legionella, Listeria
13	5	Rickettsiae, Chlamydia,
14	5	Spirochaetes, Mycoplasma,
15	5	Actinomycetes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>6</b>
Subject	<b>19MB614 : MEDICAL VIROLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General properties of viruses – Cultivation of viruses
2	1	Virus-host interactions – Classification –Nomenclature of viruses - Prions
3	1	Antiviral agents - Viral vaccines - Mode of transmission of viruses
4	2	Pox viruses - Herpes viruses
5	2	Adeno viruses
6	2	Picornavirus
7	3	Orthomyxo viruses

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Paramyxo viruses
9	3	Corona viruses
10	4	Arboviruses
11	4	Rubella virus
12	4	Rhabdoviruses
13	5	Hepatitis viruses
14	5	Rota virus - Oncogenic viruses
15	5	Retro viruses

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SWAMINATHAN C Dr	Academic Year	2022-2023
Department	Micro Biology	Semester	5
Subject	19MB511 : MEDICAL PARASITOLOGY	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Classes of parasites - Classes of hosts - Host parasite relationship
2	1	Sources of infection - Modes of transmission - Pathogenesis
3	1	Laboratory diagnosis of parasitic diseases - Treatment
4	2	Entamoeba histolytica, Naegleria fowleri
5	2	Giardia lamblia, Trichomonas vaginalis
6	2	Leishmania donovani, Trypanosoma brucei complex
7	3	Plasmodium species

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Toxoplasma gondii, Cryptosporidium parvum
9	3	Isospora belli, Balantidium coli
10	4	Taenia saginata, Taenia solium
11	4	Schistosoma haematobium, Fasciola hepatica
12	4	Fasciolopsis buski
13	5	Trichuris trichiura, Ancylostoma duodenale
14	5	Ascaris lumbricoides, Enterobius vermicularis
15	5	Wuchereria bancrofti

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROKIAMARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>2</b>
Subject	<b>AMT202T : ALLIED MATHEMATICS - II</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Expansions of $\sin n^\circ$ , $\cos n^\circ$ ,
2	1	$\sin n^\circ$ , $\cos n^\circ$ , $\tan n^\circ$ , Expansions of $\sin^\circ$ , $\cos^\circ$ , $\tan^\circ$ in terms of $^\circ$
3	1	Hyperbolic and inverse hyperbolic functions
4	1	Hyperbolic and inverse hyperbolic functions, Logarithms of complex numbers.
5	2	Lagranges equations.
6	3	Vector functions- Derivative of a vector function.
7	3	Scalar and vector point functions- Gradient of a scalar point function- Gradient.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Directional derivatives –Unit vector normal to a surface – angle between the surfaces.
9	3	divergence, curl.
10	4	Green's theorem in the plane.
11	4	Gauss divergence theorem
12	4	Stoke's theorem
13	4	Stoke's theorem
14	5	Lagrange's interpolation formula for unequal intervals.
15	5	Lagrange's interpolation formula for unequal intervals.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V.Ramalingam Pillai - Tamilan Idayam (Prarthanai) Pavalalararu Parunchithiranar - kanicharu
4	1	Kanadasan - Thavaru - Manipu
5	5	Ilakanam - Mathal Ezuthu, sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val Ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Thamizhanban - Vetrimgam Vairamuthu - Suthanthiram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendriu Kacithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathai - Orunal Kazinthathu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VANATHAIYAN M Dr.	Academic Year	2022-2023
Department	Physics	Semester	2
Subject	21LT02 : TAMIL - II	Course	Physics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiyavaralaru - Palaverkala Ilakiyangal
2	1	Vallalar - Thiruvarkodai Thiruganasambanthar - Muthal Thirumozhi - Thirualavai
3	1	Pariyazvar - Thirupalandu Namazvar - Patham Thiruvazmozhi
4	1	Vannakalangiyapulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Urainadai - Thortamum Valarchiyum
6	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (1 - 6)
7	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (7 - 12)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (13 - 18)
12	4	Ilakiyavaralaru - Sidhar Ilakiyam Arimugam
13	2	Arunagirinather - Thirupugaz (Thiruchendur) Patinathar - Thiruthillai (1 - 5)
14	2	Patinathar - Thiruthillai (6 - 10) Sivavakiyar _ Padal 9.10.11
15	5	Ilakanam Yapilakanam - Ezuthu, Asai , Seer, Adi Vatruporul Vaipu Anni
9	4	Ilakiyavaralaru - Thortamum Valerchiyum
10	2	Palapadai Sokanatha Pulaver - Alager Killaividu Thoothu
11	2	Pagazhikoother - Thirucendur Murugan Pillaithamizh Kumaragurubarer - Madurai Meenatchiyammai Irataimanimalai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irupatham nootrandu kavingargal.
2	1	Bharathiyar-Kaani Nilam Vendum, Bharathidasan-Nattiyal Nattuvom.
3	1	Namakkal kavignar-Tamizan Idhayam.Perunchithiranar-Kanisaru.
4	1	Kannadasan-Tavaru Mannippu,Suratha-Malatai.
5	5	Mudhal Ezhuthukal,Sarbu Ezhuthukal.
6	5	Vallinam Migum Idangal,Vallinam Miga Idangal.
7	3	Puthukavithai thotramum valarchiyum.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi-pootha neruppu,Meera-pillaitamil.
9	2	Erode Tamilanban-Vetri mugam, Vairamuthu+Suthanthiram.
10	2	Cirpi-Abdul kalam in veenai.
11	2	Haikku Kavitaikal.
12	2	Senrya Kavitaikal.
13	3	Sirukathi thotramum valarchiyum.
14	4	Kadavulum kandasamy pillaiyum,Oru naal kazhinthathu.
15	4	Kalanum kizhaviyum,Akalyai.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam Ilakkiyangal
2	1	Vallalar - Thiruvart kodai, Thiru Gnana Sampanthar - Thiru Aalavayum
3	1	Periyazhvar - Thirupallandu, Nammazhvar - Patham thirivai mozhi
4	1	Vanna kalanchiya pulavar - Kuthpu nayaga puranam Theen vilakkam, Vethanagam pillai - Neethu nool
5	4	Urainadai thotramum valarchiyum
6	3	Urainadai - Pavanaar nokkil Arinar perumakkal 1-5
7	3	Urainadai - Pavanaar nokkil Arinar perumakkal 6-10



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai - Pavanaar nokkil Arinar perumakkal 11-16
9	4	Nayakkar kala Ilakkiyangal
10	2	Pala pattadai sokkanatha pulavar - Azhagar killai vidu thoothu
11	2	Pakazhi koothar - Thiruchendur murugan pillai tamizh muthaparuvam, kumara kuruparar- Marurai Meenatchiyammai Irattai manimalai
12	4	Sidhar Ilakkiam - Arimugam
13	2	Arunagiri Nathar - Thuruppugazh, Siva vakkiyar Padalgal
14	2	Pattinathar -thiruthillai
15	5	Yappilakanam - Ezhuthu, Asai, Seer, Adi, Vetru poruvaippu ani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SAVITHAMARY A	Academic Year	2022-2023
Department	Physics	Semester	2
Subject	AMT202T : ALLIED MATHEMATICS - II	Course	Physics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansions of $\sin n^\circ$ , $\cos n^\circ$ ?
2	1	Expansions of $\sin n^\circ, \cos n^\circ,$
3	1	Expansions of $\tan n^\circ$ ?
4	1	Expansions of $\sin^\circ, \cos^\circ, \tan^\circ$ in terms of ?
5	1	Expansions of $\sin^\circ, \cos^\circ, \tan^\circ$ in terms of ?
6	1	Hyperbolic functions
7	1	inverse hyperbolic functions

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Logarithms of complex numbers.
9	1	Logarithms of complex numbers.
10	4	Green's theorem in the plane- simple applications
11	4	Green's theorem in the plane- simple applications
12	4	Gauss divergence theorem-simple applications
13	4	Gauss divergence theorem-simple applications
14	4	Stoke's theorem -simple applications
15	4	Stoke's theorem -simple applications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	English Speech Sounds - Consonants Meeting People, Exchanging Greetings & Taking Leave Introducing People to Others
2	1	Prose : Forgetting - Robert Lynd Letter Writing - Informal Letters The Sentence Parts of Speech
3	2	Speech Sounds - Pure Vowels Giving Personal Information Talking about People Mending Wall - Robert Frost
4	2	Letter Writing - Formal Letters Nouns - Classes & Gender Number & Case Adjectives & Comparison of Adjectives
5	3	Diphthongs Taking and Leaving Messages Making Enquiries on the Phone Poem : Time & Love - William Shakespeare
6	3	Dialogue Writing Articles Pronouns : Personal, Reflexive, Emphatic, Demonstrative, Indefinite, Interrogative, Relative.
7	0	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
14	0	II CIA Exam
15	0	Revision
8	4	Phonetic Transcriptions Answering the Telephone and Asking for Someone
9	4	Prose : Mother Terasa - John Frazer Reading Comprehension
10	4	One Act Play - The Best Laid Plans - Farrel Mitchell Verbs - Active and passive voices
11	5	Concord or Agreement of the Verb with the subject Verbs - Transitive and Intransitive
12	5	Dealing with a wrong number Voice and Voiceless Sounds
13	5	Verb - Mood and Tense The Selfish Giant - Oscar Wilde

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>PEPS01A : PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - I</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Indian Scientist who found why the sea is Blue
2	1	The Original Rocket Man of India
3	2	Marie Curie
4	2	The Invention of Vaseline
5	3	Process Description
6	3	Role Play
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Skimming/Scanning
9	4	Skimming/Scanning
10	4	Skimming/Scanning
11	5	Kalpana Chawla: Biography and Columbia Disaster
12	5	Kalpana Chawla: Biography and Columbia Disaster
13	5	Kalpana Chawla: Biography and Columbia Disaster
14	0	III CIA
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Triphthongs Making Requests and Responding to Requests Thanking Someone and Responding to Thanks How to be a Doctor
2	1	How to be a Doctor Precis Writing Non-Finite Verbs Strong and Weak Verbs
3	2	Strong and Weak Forms in Transcription Inviting and Accepting and Refusing and Invitation Apologising and Responding to an Apology Auguries of Innocence
4	2	Auguries of Innocence Note Making Use of Wrong Preposition Unnecessary use of Articles
5	3	The Relationship between Spelling and Sound Paying Compliments, Showing Appreciation, Offering Encouragement and Responding to them Asking for, Giving and Refusing Permission
6	3	My Vision for India Report Writing Punctuation and Capitals
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Sentence Transcription Describing Daily Routines Poem: If
9	4	The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing short passages Asking for Directions and giving directions
12	5	Biography-Kiran Bedi
13	5	Use of Wrong Tenses The uses of Prefixes and Suffixes
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>PH102A : MECHANICS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Statics, Hydrostatics and Fluid Mechanics: Centre of gravity- Centre of gravity of a Solid cone
2	1	Centre of gravity of a Solid hemisphere-Thrust-Centre of pressure, Vertical rectangular lamina.
3	1	Equation of continuity of flow- Energy of the fluid- Euler's Equation of unidirectional flow -Bernoulli's theorem.
4	2	Mechanics Of Rigid Bodies: Rigid body- Moment of inertia- Radius of gyration.
5	2	Moment of inertia of a solid cylinder, cylindrical shell, solid sphere, spherical shell
6	2	Bifilar pendulum-Compound pendulum-Determination of g and k.
7	3	Space Science: Rockets and satellites- Basic principles of rocket motion

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Rocket equation, Thrust and acceleration, Escape velocity of multistage rockets. Liquid, solid and cryogenic propellant rockets
9	3	Space shuttle- Orbital velocity- Launching of satellites - Types of satellite Orbits.
10	4	Projectiles and Friction: Introduction to projectile motion- Projectile on an inclined plane
11	4	Friction- Laws of friction- Sliding friction - Angle of friction- Cone of friction-
12	4	Equilibrium of a body on a rough inclined plane acted upon by an external force- Rolling friction and stability.
13	5	Mechanics Of A System Of Particles: Generalized Co-ordinates
14	5	transformation equations configuration space- principle of Virtual work-
15	5	Lagrange's equations and its applications.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ELAYA KUMAR K</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>5</b>
Subject	<b>PHP505 : GENERAL PRACTICAL - 5</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Young's Modulus - Koenig's Method (Component's Explanation)
2	1	Young's Modulus - Koenig's Method (Demo Class)
3	1	Young's Modulus - Koenig's Method
4	2	Ballistic Galvanometer - Comparison of EMF (Component's Explanation)
5	2	Ballistic Galvanometer - Comparison of EMF (Demo Class)
6	2	Ballistic Galvanometer - Comparison of EMF
7	3	Spectrometer - Narrow Angled Prism (Component's Explanation)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spectrometer - Narrow Angled Prism (Demo Class)
9	3	Spectrometer - Narrow Angled Prism
10	4	Potentiometer - Specific Resistance of a Wire (Component's Explanation)
11	4	Potentiometer - Specific Resistance of a Wire (Demo Class)
12	4	Potentiometer - Specific Resistance of a Wire
13	5	Newton Rings - Refractive Index of a Lens (Component's Explanation)
14	5	Newton Rings - Refractive Index of a Lens (Demo Class)
15	5	Newton Rings - Refractive Index of a Lens

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ELAYA KUMAR K</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>5</b>
Subject	<b>19PH510 : SOLID STATE PHYSICS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Crystals structure of Solids: Crystal lattice-primitive and unit cell-seven classes of crystals-Bravais lattice- Miller indices
2	1	Structure of crystals- simple cubic, Hexagonal close packed structure-Face centered cubic structure, Body centered cubic structure, Simple cubic structure
3	1	Sodium chloride structure, Zinc Blende structure, Diamond structure
4	2	X-Ray Diffraction: Diffraction of x-rays by crystals-Bragg's law in one dimension
5	2	Experimental method in x-ray diffraction-Laue method, Rotating crystal method-Powder photograph method
6	2	Von Laue's equations-Point defects- Line defects- Surface defects- Volume defects-Effects of crystal imperfections
7	3	Magnetism: Different type of magnetic materials-Classical theory of Diamagnetism (Langevin theory)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Langevin theory of Paramagnetism-Weiss theory of Paramagnetism
9	3	Qualitative explanation of Heisenberg's Internal Field and Quantum Theory of Ferromagnetism
10	4	Dielectrics: Fundamentals definitions in dielectrics-different types of electric polarization- Frequency and Temperature Effects on Polarization
11	4	Dielectric loss-Local Field on internal field Clausius-Mosotti Relation
12	4	Determination of Dielectric Constant-Dielectric Breakdown-Properties of Different types of insulating materials
13	5	Superconductivity: Introduction-Meissner effect-Limitation-Type I & II Superconductivity-Vortex states
14	5	BCS Theory (Qualitative treatment only)
15	5	Josephson's effect-Copper pair tunneling

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>5</b>
Subject	<b>PHP505 : GENERAL PRACTICAL - 5</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction and Experiments demo
2	1	Experiment 1
3	1	Experiment 2
4	2	Experiment 3
5	2	Experiment Repetition
6	2	Experiment Repetition
7	3	Experiment 4



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Experiment 5
9	3	Experiment Repetition
10	4	Experiment Repetition
11	4	Experiment Repetition
12	4	Model Exam
13	5	Model Exam
14	5	Model Exam
15	5	Model Exam

**\*\* It is an auto generated report \*\***

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Etuthokai
2	2	Purnanauru Agananuru
3	3	Kurunthokai Natrinai
4	4	Aingurunuru Kalithokai
5	5	Paripaadal
6	6	Keezhkanaku Noolgalil Needhi Noolgal
7	7	Virundhombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Kalamai Kuriparidhal
9	9	Pathupaatu
10	10	Sirupaanatrupadai
11	11	Mullaipaatu
12	12	Madhuraikaanji
13	13	Patinapaalai
14	14	Patinapaalai
15	15	Pathirikaigalil Seidhi Varaidhal Suruki Varaidhal Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1 SEEVASINTHAMANI - NATTUVALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUYA KAAPIYAM
12	4	4.4. ISLAMIYA KAAPIYAM
13	3	3.1. PERIYAPURANAM - ILLAIYANKUDI MAARANAYANAAR PURANAM
14	3	THEMPAAVANI - SETHAION VTRI PADALAM
15	3	SEERAAPURANAM - KAAMAPADALAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 ETTUTHOGAI
2	1	1.1 PURA NANOORU -184, 204, 1.2 AGANANOORU - 219,351
3	1	1.3 KURUNTHOGAI - 20, 210 1.4 NATRINAI - 21,86
4	1	15 AINGURUNOORU -ANNAAI PATHU1,5
5	1	1.7 PARI PAADAL - VAIGAI 10th SONG 71,131
6	4	4.3 KEEZH KANAKU NOOLGALIL NEETHI NOOLGAL
7	3	3.1 ARATHUPPAAL - VIRUNTHIMBAL 3.2 PORUT PAAL - KALLAMAI

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.3 INBATHTHU PAAL - KURIPPARITHAL
9	4	4.2 PATHTHUPPAATTU
10	2	2.1 SIRUPAANAATRUPADAI - 111,145,235,261 (NALLIYAKODAN SIRAPPU)
11	2	2,2 MULLAI PAATU - 26,79
12	2	2.3 MATHURAI KAAANJI - 238,270(THALAIYALAN GANATHU CHERUVENDRA NEDUNCHEZHIANIN TAMIL NILATHIL AMAINTHA 5 NILAPAGUTHIGALIN PANBUM VALAMUM)
13	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
14	2	2.4 PATINA PAALAI - 1,59 (KAVIRI POOMBATINATHIN SIRAPU)
15	5	MOZHI THIRAN 5.1 PATHIRIKAIGALIL SEITHI VARAITHAL 5.2 SURUKI VARAITHAL 5.3 NER KAAANAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	IMPERUM KAAPIYANGAL - VILAKKAM
2	3	IYNGHCHIRU KAAPIYANGAL - VILAKKAM
3	3	PIRA KAAPIYANGAL , RETTAIKKAPIYANGAL - VILAKKAM
4	1	SILAPPATHIGARAM - KUNDRAK KURAVAI KAATHAI
5	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
6	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
7	2	SEEVAGA CHINTHAMANI - EMANGATHA NAATTU VALAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	PANBALAI VANOLI NIGAZHCHI THOGUPPU VADIKAIYALER SEVAI MAIYA ALUVALER SUTTRULA VAZHIKATTI KADETHANGAL, POTHUKATTURAIGAL
9	5	SUTTRULA VAZHIKATTI KADETHANGAL, POTHUKATTURAIGAL
10	2	KAMBARAMAYANAM - KAIKEYE SOOZHCHI PADALAM
11	4	KIRUSTHUVA KAAPIYANGAL
12	4	ISLAMIYA KAAPIYANGAL
13	3	PEREYAPURANAM - ILAIYANKUDI MARANAYANAR PURANAM
14	3	THEMBAVANI - SETHAIYON VETTRI PADALAM
15	3	SEERAPURANAM - GAMAP PADALAM- NUBUVATHUKKANDAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANITHA R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>19ABC401 : BIOPHYSICS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Carbohydrates: definition, classification – monosaccharides, oligosaccharides and polysaccharides; properties
2	1	Classification of Amino acids based on structure & classification of protein
3	1	Structure of proteins- primary, secondary, tertiary & quaternary, forces stabilizing the structure of proteins
4	2	Nucleic acids – Bases, Nucleosides and Nucleotides,
5	2	Structure –double helical structure of DNA, Properties of DNA & Types of DNA,
6	3	structure of nerve cell & conduction of nerve impulse
7	3	molecular basis of muscle contraction, ECG & EEG

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Radio isotope
9	4	type of radioactive decay, half-life, and units of radioactivity.
10	4	Detection and measurement of radioactivity
11	4	Methods based upon ionization - GM counter and Scintillation counter
12	4	Autoradiography, applications of radioisotopes in biology.
13	5	Spectrofluorimetry-Principle, instrumentation and applications
14	5	UV Visible & XRD-Principle, instrumentation and applications
15	5	FTIR-Principle, instrumentation and applications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>3</b>
Subject	<b>20ACH301 : ALLIED CHEMISTRY</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Spectroscopy – electromagnetic radiation, characteristics of electromagnetic radiation, electromagnetic spectrum. Types of spectroscopy - absorption & emission spectra.
2	2	IR: Types of vibration. UV: Beer-Lambert law, Electronic energy levels - electronic transition
3	2	Chromophores, Auxochrome - Bathochromic shift, Hypsochromic shift, Hyper and hypochromic shifts.
4	2	Colligative properties (without derivation): Lowering of Vapour pressure, Raoult's law
5	2	Osmosis, osmotic pressure, elevation of boiling point, freezing point depression.
6	3	unit cell, space lattices
7	3	Bravis lattice – Miller Indices -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	ionic crystal structures of simple inorganic compounds.
9	5	Material Science: Superconductivity -
10	5	characters of Superconductors-
11	5	types of Superconductors- application of Superconductors.
12	5	Electrodics: Types of electrodes and cells-
13	5	Nernst equation - EMF measurements and its application
14	5	principles of chemical and electrochemical corrosion
15	5	corrosion control.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	IMMANUEL S	Academic Year	2022-2023
Department	Physics	Semester	3
Subject	ACHP301 : ALLIED CHEMISTRY PRACTICAL - I	Course	Physics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Acid Base Concepts
2	1	conductometric titration demo
3	2	strong acid vs Strong base
4	2	Graph and Calculations discussion
5	3	Strong acid vs Weak base
6	3	Graph and Calculations discussion
7	4	Potentiometric titration Introduction and principle Discussions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Potentiometre instrumentation demo
9	6	PKa
10	6	PKa calculation Discussion
11	7	FAS Experiment Discussion
12	7	FAS Titration
13	7	FAS Calculation and graph Discussion
14	8	AgNo3 Demo
15	8	AgNo3 titration

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The Count of Monte Cristo - Alexandre Dumas
2	1	The Count of Monte Cristo - Alexandre Dumas
3	2	The Count of Monte Cristo - Alexandre Dumas
4	2	The Count of Monte Cristo - Alexandre Dumas
5	3	The Count of Monte Cristo - Alexandre Dumas
6	3	The Count of Monte Cristo - Alexandre Dumas
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Count of Monte Cristo - Alexandre Dumas
9	4	The Count of Monte Cristo - Alexandre Dumas
10	4	The Count of Monte Cristo - Alexandre Dumas
11	5	The Count of Monte Cristo - Alexandre Dumas
12	5	The Count of Monte Cristo - Alexandre Dumas
13	5	The Count of Monte Cristo - Alexandre Dumas
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	I. Listening: Mock – Interviews / Actual Interviews II. Speaking: 1. Facing an Interview 2. Tele – Interviews
2	1	III. Reading 1. Drama: Julius Caesar - Funeral Oration – William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 01-10) IV. Writing: Description
3	2	I. Listening: Words often confused II. Speaking: Seminar Skills
4	2	III. Reading 1. Drama: Macbeth- He Kills Sleep - William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 11-20) IV. Writing : Idioms and Phrases
5	3	I. Listening: 1. Homonyms and Similar words 2. Tele – conferences II. Speaking: 1. Handling Customers or Clients 2. Receiving Visitors
6	3	III. Reading 1. Drama: Henry IV (Part I) -Play out a Play – William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 21-30) IV. Writing: The use of Graphics
7	1	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	I. Listening: Homophones II. Speaking: 1. Booking Hotel Accommodation 2. Making Small Talk and Telling Stories
9	4	III. Reading 1. Drama: Patterns of Love – As You Like It - William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40) IV. Writing Negotiations
10	4	2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 31-40) IV. Writing Negotiations
11	5	I. Listening: Group Discussions II. Speaking: 1. Making Appointments 2. Cancelling and Rescheduling Appointments
12	5	III. Reading 1. Drama: Hamlet – Churchyard - William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-49) IV. Writing : Writing Review of Books
13	5	2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 41-49) IV. Writing : Writing Review of Books
14	5	Revision
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over –
2	1	utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession –
5	2	food chains, food webs and ecological pyramids – types, characteristics, structure and f
6	2	unction of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	biodiversity – Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	DAVID AMALRAJ S Dr	Academic Year	2022-2023
Department	Physics	Semester	3
Subject	20ACH301 : ALLIED CHEMISTRY	Course	Physics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Atom - classification of nuclides
2	1	nuclear stability, the magic number
3	1	Radioactive elements, Decay kinetics
4	1	Photonuclear reaction, nuclear fission and fusion
5	1	Nuclear Reactor – Detectors - Application of Radioactivity
6	3	Bragg's equation – Principles of X-ray diffraction
7	3	Comparison of X-ray, electron and neutron diffraction.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Crystal lattices – laws of crystallography – elements of symmetry
9	3	crystal systems – unit cell, space lattices
10	3	Bravais lattice – Miller Indices - ionic crystal structures of simple inorganic compounds.
11	4	Acid-base titrations,
12	4	complexation, precipitation
13	4	redox titrations, voltammetry,
14	4	amperometry
15	4	conductometry, basic principle and uses

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems -Concept, structure and function of an ecosystem – producers, consumers and decomposes – energy flow.
5	2	Ecological succession – food chains, food webs and ecological pyramids – types.
6	2	Characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity.
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution.
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act.
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ELAYA KUMAR K</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>5</b>
Subject	<b>PHP505 : GENERAL PRACTICAL - 5</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Young's Modulus - Koenig's Method (Component's Explanation)
2	1	Young's Modulus - Koenig's Method (Demo Class)
3	1	Young's Modulus - Koenig's Method
4	2	Ballistic Galvanometer - Comparison of EMF (Component's Explanation)
5	2	Ballistic Galvanometer - Comparison of EMF (Demo Class)
6	2	Ballistic Galvanometer - Comparison of EMF
7	3	Spectrometer - Narrow Angled Prism (Component's Explanation)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spectrometer - Narrow Angled Prism (Demo Class)
9	3	Spectrometer - Narrow Angled Prism
10	4	Potentiometer - Specific Resistance of a Wire (Component's Explanation)
11	4	Potentiometer - Specific Resistance of a Wire (Demo Class)
12	4	Potentiometer - Specific Resistance of a Wire
13	5	Newton Rings - Refractive Index of a Lens (Component's Explanation)
14	5	Newton Rings - Refractive Index of a Lens (Demo Class)
15	5	Newton Rings - Refractive Index of a Lens

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SHOBA D DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>5</b>
Subject	<b>19PH510 : SOLIED STATE PHYSICS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Crystal lattice- primitive and unit cell- seven classes of crystals – Bravais lattice- Miller indices-
2	1	structure of crystals- simple cubic, Hexagonal close packed structure-Face centered cubic structure,
3	1	Body centered cubic structure, Simple cubic structure-Sodium chloride structure, Zinc Blende structure, Diamond structure
4	2	Diffraction of x-rays by crystals-Bragg's law in one dimension- Experimental method in x-ray diffraction-Laue method,
5	2	Rotating crystal method-Powder photograph method-von Laue's equations
6	2	Point defects- Line defects- Surface defects- Volume defects- Effects of crystal imperfections
7	3	Different type of magnetic materials- Classical theory of Diamagnetism(Langevin theory)-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Langevin theory of Paramagnetism – Weiss theory of Paramagnetism- Qualitative explanation of Heisenberg's Internal Field and Quantum Theory of Ferromagnetism.
9	3	Qualitative explanation of Heisenberg's Internal Field and Quantum Theory of Ferromagnetism.
10	4	Fundamentals definitions in dielectrics – different types of electric polarization-
11	4	Frequency and Temperature Effects on Polarization – Dielectric loss – Local Field on internal field Clausius-Mosotti Relation-
12	4	Determination of Dielectric Constant – Dielectric Breakdown – Properties of Different types of insulating materials
13	5	Superconductivity Introduction-Meissner effect-Limitation-
14	5	Type I& II Superconductivity-Vortex states- BCS Theory (Qualitative treatment only)-
15	5	Josephson's effect-Copper pair tunneling.-problems

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VANATHAIYAN M Dr.	Academic Year	2022-2023
Department	Zoology	Semester	1
Subject	LT101B : TAMIL - I	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Irubatham Noortandu Kavinjargal
2	1	Barathiyar - Kani Nilam Barathidasan - Natiyal Natuvom
3	1	Namakal V.Ramalingam Pillai - Tamilan Idayam (Prarthanai) Pavalararu Parunchithiranar - kanicharu
4	1	Kanadasan - Thavaru - Manipu
5	5	Ilakanam - Mathal Ezuthu, sarbazuthu Val ortu Migum Idam 1 to 6
6	5	Val ortu Migum Idam 7 to 14 Val Ortu Miga Idam
7	3	Puthukavithai Thortam Valerchi

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi - Poothanarupu Meera - Pillaithamizh
9	2	Eerodu Thamizhanban - Vetrimgam Vairamuthu - Suthanthiram
10	2	Sirpi - Abdulkalamin Veenai
11	2	Haikoo Kavithai
12	2	Sendriu Kacithai
13	3	Sirukathai Thortam Valarchi
14	4	Sirukathai - Kadavulum Kanthasami Pillaiyum Sirukathai - Orunal Kazinthathu
15	4	Sirukathai - Kalanum Kizaviyum Sirukathai - Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ilakiyavaralaru - Palaverkala Ilakiyangal
2	1	Vallalar - Thiruvarkodai Thiruganasambanthar - Muthal Thirumozhi - Thirualavai
3	1	Pariyazvar - Thirupalandu Namazvar - Patham Thiruvazmozhi
4	1	Vannakalangiyapulaver - Kuthpunayagam - Theenvilakam Vathanayagampillai - Neethinool
5	4	Urainadai - Thortamum Valarchiyum
6	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (1 - 6)
7	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (7 - 12)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Urainadai Paavaner Padaipugal - Paavaner Nokil Perumakal (13 - 18)
12	4	Ilakiyavaralaru - Sidhar Ilakiyam Arimugam
13	2	Arunagirinather - Thirupugaz (Thiruchendur) Patinathar - Thiruthillai (1 - 5)
14	2	Patinathar - Thiruthillai (6 - 10) Sivavakiyar _ Padal 9.10.11
15	5	Ilakanam Yapilakanam - Ezuthu, Asai , Seer, Adi Vatruporul Vaipu Anni
9	4	Ilakiyavaralaru - Thortamum Valerchiyum
10	2	Palapadai Sokanatha Pulaver - Alager Killaividu Thoothu
11	2	Pagazhikootheer - Thirucendur Murugan Pillaithamizh Kumaragurubarer - Madurai Meenatchiyammai Irataimanimalai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>19ZO204 : CHORDATA - II</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Class AMPHIBIA General characters and classification up to orders.
2	1	Type study : Frog – morphology, digestive system,
3	1	respiratory system, urinogenital system, sexual dimorphism,
4	1	life cycle - Adaptive features of Anura, Urodela & Apoda.
5	1	Parental care in Amphibia – Neoteny.
6	3	Pigeon: digestive system, respiratory system, Flight adaptation.
7	3	Migration in birds,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	AVES - General characters
9	3	AVES :Classification up to orders
10	4	Class MAMMALIA - General characters and classification upto orders.
11	4	Egg laying mammals
12	4	Type study – Rabbit: morphology,
13	4	Rabbit: Digestive system.
14	4	Rabbit: Respiratory system, urinogenital system.
15	4	Dentition in mammals.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>21ACH201 : ALLIED CHEMISTRY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Purification of solid compounds
2	2	Crystallisation
3	2	Fractional crystallisation
4	2	Sublimation
5	2	Purification of liquids
6	2	Experimental techniques of distillation
7	2	Fractional distillation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Vacuum distillation- Steam distillation.
9	5	Water quality parameters – COD, BOD, TDS
10	5	Hardness of water
11	5	Temporary and Permanent hardness
12	5	Estimation of hardness (EDTA method)
13	5	Water softening (Zeolite Method)
14	5	Demineralization of water (Ion Exchange Method)
15	5	Desalination (Reverse Osmosis Method).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam
2	1	Vallalar - thiruvarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BAKKTHI ILLAKKIYANGAL VALLALAR - THIRUVARUL KODAI 4798, 4799, 4802 THIRUGHNANA SAMBANDER - MUTHAL THIRUMURAI, THIRUAALAVAYUM- NATTAPPADAI 65,66,67
2	1	PEREYAZHVAR - THIRUPPALLANDU 1-10 NAMMAZHVAR , THIRUVAAIMOZHI 10, 1-5
3	1	VANNAKALANGIYAPPULAVAR - KUTHPPUNAAAYAGA PURANAM, THEENVILAKKAM 172, 1149 VETHANAYAGAM PILLAI- NEETHI NOOL 421, 89, 90
4	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 1-4 THALAPPUGAL
5	3	URAINADAI PAAVANAR PADAIPPUGAL - PAAVANAR NOOKKIL PERUMAKKAL 5-8 THALAPPUGAL
6	4	ILLAKKIYAVARALARU PALLAVER KAALUM THOTTRAMUM VALERCHIYUM
7	4	ILLAKKIYA VARALARU- URAINADAI THOTTRAMUM VALARCHIYUM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	SITRELAKKIYANGAL , SITHER ILAKKIYANGAL PALAPPATTADAI SOKKANATHAP PULAVER - AZHAGER KILLAI VIDU THOOTHU PAGAZHIKKOOTHER - THIRUSENTHOOR MURUGAN PILLAITHAMUZH
9	2	KUMARAKURUBARAER - MADURAI MEENATCHIYAMMAI IRATTAI MANIMAALAI KATTALAI KALITHURAIYIL 2 PAADALGAL ARUNAGIRENATHER THIRUPPUGAZH- THIRUSENTHOOR
10	2	PATTINATHAR -THIRUTHILLAI 1-10 PAADALGAL
11	2	SIVAVAAKKIYAR 9,10,11 PAADALGAL
12	4	ILLAKKIYA VARALARIL NAAYAKKER KAALAM THOTTRAMUM VALARCHIYUM
13	4	SITHER ILLAKKIYAM THOTTRAMUM VALARCHIYUM
14	5	ILLAKKANAM YAAPPILAKKANAM -EZHUTHU, ASAI, SEER, ADI-URUPPUGAL
15	5	ILLAKKANAM VETTRUPPORUL VAIPPANI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Irupatham nootrandu kavingargal.
2	1	Bharathiyar-Kaani Nilam Vendum, Bharathidasan-Nattiyal Nattuvom.
3	1	Namakkal kavignar-Tamizan Idhayam.Perunchithirananar-Kanisaru.
4	1	Kannadasan-Tavaru Mannippu,Suratha-Malatai.
5	5	Mudhal Ezhuthukal,Sarbu Ezhuthukal.
6	5	Vallinam Migum Idangal,Vallinam Miga Idangal.
7	3	Puthukavithai thotramum valarchiyum.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi-pootha neruppu,Meera-pillaitamil.
9	2	Erode Tamilanban-Vetri mugam, Vairamuthu+Suthanthiram.
10	2	Cirpi-Abdul kalam in veenai.
11	2	Haikku Kavitaikal.
12	2	Senrya Kavitaikal.
13	3	Sirukathi thotramum valarchiyum.
14	4	Kadavulum kandasamy pillaiyum,Oru naal kazhinthathu.
15	4	Kalanum kizhaviyum,Akalyai.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Zoology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sound - consonants 1.Meeting people, exchanging greetings & taking leave 2.Introducing people to others
2	1	Prose: Forgetting- Robert Lynd 1.Letter - writing - informal letters 2.The sentence 3.Parts of speech
3	2	Speech sounds - pure vowels 1.Giving personal information 2.Talking about people
4	2	Poem: Mending Wall - Robert Frost 1.Letter - writing- formal letters 2.Nouns - Classes and Gender 3.Nouns - Number and case 4.Adjectives 5.Comparison of Adjectives
5	3	Diphthongs 1.Taking and leaving messages 2.Making enquiries on the phone
6	3	Poem : Time and Love - William Shakespeare 1.Dialogue writing 2.Articles 3.Pronouns- personal, reflexive and emphatic 4.Pronouns - Demonstrative, Indefinite, interrogative, Distributive and Reciprocal 5.Pronouns- Relative
8	4	Phonetic transcription ( words ) Answering the telephone and asking for someone

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	1.Prose : Mother Teresa - John Frazer 2. One - Act Play: The Best Laid Plans - Farrel Mitchell
10	4	1.Reading comprehension 2.Verbs - Transitive and Intransitive 3.Verbs - Active and Passive Voices
11	5	Voiced and voiceless sounds Dealing with a wrong number
12	5	Short story : The Selfish Giant - Oscar Wilde
13	5	1.Verbs - Mood and Tense 2.Concord or Agreement of the Verbs with the subject
7	0	I CIA EXAMINATIONS
14	0	II CIA EXAMINATIONS
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Consonants Making people, Exchanging Greeting & Taking Leave Introducing people to others
2	1	Prose : Forgetting - Robert Lynd Letter Writing - Informal Letters The Sentence Parts of Speech
4	2	Speech sounds - Vowels Giving Personal Information Talking about people
7	0	I CIA Examination
3	2	Poem : Mending Wall - Robert Frost Formal Letters Nouns - Classes and Gender Nouns : Number and Case Adjectives Comparison of Adjectives
5	3	Diphthongs Taking and Leaving messages Making enquiries on the phone Poem : Time and Love Dialogue Writing Articles
6	3	Pronouns - Personal, Reflexive and Emphatic Pronouns - Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal Pronouns - Relative

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Phonetic Transcription ( Words) Asking the Telephone and Asking for someone
9	4	Prose - Mother Teresa - John Frazer Reading Comprehension
10	4	One - Act play : The best laid plans
11	4	Verbs - Transitive and Intransitive Verbs - Active and Passive Voices
12	5	Voiced and Voiceless sounds Dealing with a wrong number
13	5	Short story : The Selfish Giant Verbs : Mood and Tense Concord or Agreement of the verb with the subject
14	0	II CIA Exam
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Zoology	Semester	2
Subject	19ZO203 : CHORDATA - I	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sub phylum: Prochordata: General Characters -Type study: Amphioxus (Cephalochordata) – Morphology,
2	1	Wheel organ, feeding mechanism
3	1	Affinities with invertebrates and chordates
4	2	Sub phylum: Prochordata: Type study: Balanoglossus(Hemichordata)
5	2	General Characters and Chordate features
6	2	Affinities with Urochordata, Amphioxus, Prochordata
7	3	Sub phylum: Prochordata: Type study: Ascidian: General Characters



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Morphology and affinities with Urochordata and cephalochordata
9	3	Ascidian Tadpole larva – retrogressive metamorphosis.
10	4	Salient Features and General classification of Phylum chordata upto orders.
11	4	Origin of Chordates – theories proposed about chordata
12	4	Coelenterate theory, nemertean theory, annelid theory, insect theory and echinoderm theory.
13	5	Class PISCES General characters and classification upto orders.
14	5	Type study: Shark. Morphology- digestive system, respiratory system
15	5	reproductive system -Accessory respiratory organs in fishes, Migration in fishes.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>18ZOP21* : PRACTICAL - I :INVERTEBRATA AND CHORDATA</b>	Course	<b>Zoology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DISSECTIONS Earthworm – Digestive system
2	1	Cockroach – Digestive, Nervous system and Reproductive system,
3	1	Prawn – Nervous system, Fish – Digestive system
4	2	MINOR PARCTICAL MOUNTING -Insect Mouth parts : Cockroach, Honey bee,
5	2	House Fly and Mosquito Prawn – Appendages,
6	2	Shark - Placoid scales, Earthworm – Body setae
7	3	SPOTTERS Study of the following specimens 1. Classify by giving reasons Paramecium,Sycon, Obelia, Taenia solium, Neries,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Prawn, Freshwater mussel, Seastar, Amphioxus, Shark, Hyla, Rhacophorus, Calotes, Pigeon, Rat/Rabbit.
9	3	2. Adaptations to their respective modes of life Entamoeba, Trypanosoma, Plasmodium, Corals [any 2],
10	4	Ascaris, Fasciola, Wuchereria bancrofti, Cheatopterus, Leech, Limulus, Nauplius, Mysis, Zoea, Balanoglossus, Ascidian, Ichthyophis, Draco, sea snake and Bat.
11	4	3. Biological significance: Paramecium conjugation and binary fission, physalia, Trochophore Larva, Peripatus, Sacculina On Crab, Sea Anemone on Hermit Crab,
12	4	Pearl Oyster, Bipinnaria Larva, Anabas, Hippocampus, Narcine, Echeneis, Arius, Exocoetus, Eel, Amblystoma, Axolotl Larva, Bufo, Cobra, Krait, Russels Viper, Echis Carinata, Turtle, Parrot, Woodpecker, King Fisher and Ant eater
13	5	4. Relate structure and function: Sponge Spicules, Obelia-Polyp, Taenia-Scolex, Nereis - Parapodium, Book lungs of scorpion/Honey bee sting apparatus, Pedicellaria of Sea star, Ctenoid Scale and Quill Feather of pigeon.
14	5	5.Draw labeled sketches: T.S. of Nereis, T.S. of Leech, Obelia medusa, T.S. of Amphioxus through Pharynx, T.S. through arm of Sea star.
15	5	6.Osteology Skeleton - Pectoral girdles of Frog and Pigeon.,Pelvic Girdles of Frog and Pigeon. Fore and Hind limbs of Frog and Pigeon., Synsacrum of Pigeon. Dentition - Dog, Rabbit and Man.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>19ACP202 : ALLIED CHEMISTRY PRACTICAL - I</b>	Course	<b>Zoology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic demo
2	1	Systematic analysis of an organic compound containing one functional group
3	1	characterisation by confirmatory tests
4	2	Reactions of Aldehyde (Aliphatic) test
5	2	Reactions of Aldehyde (Aromatic) test
6	2	Carbohydrate, (Reducing & Non-Reducing sugar)
7	2	Carboxylic Acid (Mono) test

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Carboxylic Acid (Di) test
9	2	Phenol (Mono) test
10	2	Phenol (Di) test
11	2	Primary amine
12	2	Amide
13	2	Model Exam-1
14	2	Amide (Mono & Di)
15	2	Model Exam-2, doubt clarification

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>19ACP202 : ALLIED CHEMISTRY PRACTICAL - I</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Systematic Analysis of Organic compound-I
2	1	Systematic Analysis of Organic compound-II
3	1	Systematic Analysis of Organic compound-III
4	1	Systematic Analysis of Organic compound-IV
5	1	Systematic Analysis of Organic compound-V
6	1	Systematic Analysis of Organic compound-VI
7	1	Systematic Analysis of Organic compound-VII

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Systematic Analysis of Organic compound-VIII
9	1	Systematic Analysis of Organic compound-IX
10	1	Systematic Analysis of Organic compound-X
11	1	Systematic Analysis of Organic compound-XI
12	1	Systematic Analysis of Organic compound-XII
13	1	Systematic Analysis of Organic compound-XII
14	1	Model Practical-I
15	1	Model Practical-II

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Zoology	Semester	2
Subject	19ZO204 : CHORDATA - II	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	General characters and classification upto orders. Type study :Frog – morphology,
2	1	digestive system, respiratory system, urinogenital system, sexual dimorphism, life cycle -
3	1	Adaptive features of Anura, Urodela&Apoda. Parental care in Amphibia – Neoteny.
4	2	General characters and classification upto orders.Type study – Calotes: morphology, digestive system, respiratory system, urinogenital system -
5	2	Poison apparatus and biting mechanism of poisonous snakes. Conservation of turtles and crocodiles.
6	3	General characters and classification upto orders. Features of Archaeopteryx
7	3	Type study –Pigeon: morphology, digestive system, respiratory system, urinogenital system.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Migration in birds, Flight adaptation
9	4	General characters and classification upto orders. Egg laying mammals
10	4	Type study – Rabbit: morphology, digestive system,
11	4	respiratory system, urinogenital system.
12	4	Dentition in mammals
13	5	Primates- General characters, classification -
14	5	Origin of Primates - Type study – Lemurs – digestive system,
15	5	respiratory system, urinogenital system - adaptations of aquatic mammals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>ABZP11B : Allied Botony PRACTICAL -I</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Description of plants in technical terms belonging to the families mentioned in the theory part.
2	1	Cucurbitaceae and Apocynaceae.
3	1	Euphorbiaceae and Liliaceae.
4	2	To study the Anatomy of Pteridophyte and Gymnosperm materials Bryophytes- Funaria
5	2	Pteridophytes- Lycopodium
6	2	Gymnosperms-Cycas.
7	3	Cell division - onion root tips

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	T.S of monocot stem
9	3	T.S of dicot root and monocot root
10	4	Description of the experimental setup of plant physiology - Photosynthesis.
11	4	Anaerobic respiration.
12	4	Embryology - T.S of mature anther, Types of ovule.
13	5	Identification, Micropreparation and Description of the Anatomical materials T.S of Dicot stem.
14	5	spotters and charts - cell organelles
15	5	Ecosystem - pond ecosystem, grassland ecosystem.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>1</b>
Subject	<b>ABZ101A : ALLIED BOTANY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	General outline of Bentham and Hooker's system of classification.
2	1	Study of the characters and the economic important of the following families Cucurbitaceae, Apocynaceae, Euphorbiaceae and Liliaceae.
3	1	Bacteria-general characters-shape-flagellation-structure of E.coli –reproduction and economic importance.Structure of TMV and Bacteriophage.
4	2	Prokaryotic and eukaryotic cell.
5	2	Ultrastructure of plant cells-cell organelles –Chloroplast, Mitochondria and Nucleus.
6	2	Cell divisions- Mitosis and Meiosis. Tissues- meristematic and permanent tissues, primary and normal secondary thickening of the dicot stem.
7	3	Photosynthesis –light reaction- calvin cycle, respiration-glycolysis and kreb's cycle-electron transport system.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Growth hormones-Auxin, Gibberillin and Cytokinin-tissue culture – principles.
9	3	Structure of mature anther-structure of mature ovule-and its types and fertilization.
10	4	Algae-Chlorella; Fungi- Penicillium, Agaricus.
11	4	Bryophytes- Funaria; Pteridophytes- Lycopodium (excluding developmental studies)
12	4	Gymnosperms-Cycas. Economic importance of chlorella, penicillium and Agaricus.
13	5	Mendelism-monoybrid and dihybrid crosses and their corresponding back and test crosses.
14	5	Theories of evolution-Lamarckism and Darwinism.
15	5	Ecosystem- fresh water ecosystem, environmental pollution-types and control measures.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. V. R. Suresh Kumar</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>18PEN14 : 20 TH CENTURY BRITISH LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	W. B. Yeats: Second Coming
2	1	Rupert Brooke:Helen and Menelaus
3	1	T. S. Eliot:Preludes
4	2	Ssamus Heaney: The Tollund Man, Philip Larkin :Water
5	2	Dylan Thomas:Do Not Go Gentle Into That Good Night
6	3	George Orwell:Politics and the English Language
7	3	Bernard Russell:In Praise of Idleness, C. P. Snow: Two Cultures

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	1CIA
9	4	Samuel Beckett: Waiting for Godot
10	4	Samuel Beckett: Waiting for Godot
11	4	Samuel Beckett:Waiting for Godot
12	5	Virginia Woolf: Mrs. Dalloway
13	5	D. H. Lawrence: Sons and Lovers
14	5	Arthur C. Clarke:Childhood's End
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. V. R. Suresh Kumar</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>18EPEN25 : ENGLISH LANGUAGE TEACHING (ELT)</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. A Brief History of English Language Teaching 2. The Nature of Approaches and Methods in Language Teaching
2	1	3. The role of English in India.
3	2	Theories of language learning -- Behaviouristic theory; Cognitive theory; First language acquisition and Second language learning.
4	3	Approaches and Methods: 1. The Oral Approach and Situational Language Teaching 2. Grammar Translation
5	3	3. Audio-lingual 4. Communicative Language Teaching.
6	3	5. Competency Based Language Teaching.
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Curriculum Designing; Testing and Evaluation.
9	4	Curriculum Designing; Testing and Evaluation.
10	5	Study Skills:- 1. Teaching of LSRW skills
11	5	2. Teaching Comprehension; Making Speeches; Debating.
12	5	3. Error Analysis
13	5	4. Strategies and Techniques for Effective Self- Study
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. V. R. Suresh Kumar</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>PEN12A : INDIAN LITERATURE IN ENGLISH</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Sir Aurobindo: The Golden Light, Toru Dutt:Lakshman
2	1	Nissim Ezekiel: The Professor, A. K. Ramanujam: River
3	1	Sarojini Naidu: The Coromondal Fishers, Kamala Doss: My Grandmother's House
4	2	Tagore:Gitanjali, Daruvalla:Crossing the River
5	2	Arun Kolatkar: An Old Woman, Aravind Mehrotra: Songs of the Ganga
7	3	Mahesh Dattani: Dance like a Man
8	3	1 CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	2	Aravind Mehotra: Songs of the Ganga
9	4	Dr. S Radhakrishnan: Our Heritage
10	4	Dr. S. Radhakrishnan: Our Heritage
11	4	Nirad Chaudhuri: A Passage to England
12	5	Manju Kapur: Difficult Daughters
13	5	Manju Kapur: Difficult Daughters
14	5	Anita Desai: Where shall we go this summer?
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JACKULINE SUGANTHI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>PEN13A : ENGLISH PROSE AND FICTION</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Francis Bacon:: Of Travel,Of Parents and Children
2	1	Addison and Steele:: Sir Roger at the Theatre, Sir Roger at Church
3	1	Charlie Lamb:: South Sea House, Dream Children::A Reverie
4	2	A.G.Gardiner:: On Letter Writing,The Daredevil Barber
5	2	Ruskin Bond: Sesame and Lilies
6	5	Jane Austen: Mansfield Park
7	5	Charlotte Bronte:Jane Eyre



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	1CIA
9	5	Thomas Hardy: Tess of the d'urbervilles
10	5	R.L..Stevenson: Dr.Jekyll and Mr.Hyde, William Hazlitt: My First Acquaintance with Poets
11	3	Jonathan Swift: The Battle of the Books
12	4	Mathew Arnold: Sweetness and Light, George Orwell: Shooting of an Elephant
13	4	George Orwell: Shooting of an Elephant
14	4	Aldous Huxley: Comfort
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>1</b>
Subject	<b>18PEN11 : ENGLISH POETRY</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	John Milton: Paradise Lost
2	1	John Milton: Paradise Lost
3	1	John Milton: Paradise Lost , Edmund Spenser: Prothalamion
4	1	Geoffrey Chaucer: Prologue to the Canterbury Tales _The Knight, The Prioress, The Wife of Bath, The Doctor of Physic
5	4	T.S. Eliot: The Waste Land
6	4	T.S.Eliot: The Wasteland
7	2	John Dryden: Mac Flecknow,John Donne: The Canonization,Andrew Marvell: To His Coy Mistress

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	1 CIA
9	2	Alexander Pope: The Rape of the Lock, William Wordsworth: Nutting
10	3	S.T.Coleridge: The Rime of the Anvi Mariner,John Keats: Ode to Autumn
11	3	Ode on a Grecian Urn,P.B.Shelley: Ode to a Skylark
12	5	Robert Browning: Andrea Del Sarto,
13	5	Thomas Hardy: The Darling Thrush,
14	5	Philip Larkin: Church Going, Stephen Spender:The Express
15	5	11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>PEN24A : LITERARY CRITICISM</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Aristotle: Poetics
2	1	Aristotle :Poetics
3	1	Phili Sidney :An apology for poetry
4	2	John Dryden : An essay on dramatic poetry
5	2	John Dryden : An essay on dramatic poetry
6	2	Samuel Johnson : Preface to Shakespeare
7	3	William Wordsworth : Preface to Lyrical Ballads

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	CIA Exam
9	4	Henry James :The Art of Fiction
10	4	Henry James: The Art of Fiction
11	4	T. S. Eliot: Tradition and Individual Talent
12	5	E. M. Forster: Aspects of the Novel
13	5	Northrope Frye: Archetypes of Literature
14	2	CIA Exam
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. S. Umamageswari</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>18PEN23 : MODERN LIGUISTICS AND STYLISTICS</b>	Course	<b>English</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	-
2	1	-
3	2	-
4	2	-
5	3	-
6	3	-
7	3	I CIA EXAMINATION

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The problem of Style Rhetoric - Various Definitions
9	4	What is Stylistics?
10	4	Statistics - History and Varieties
11	5	Stylistic of Prose and Practical Analysis
12	5	Stylistic of Poetry and Practical Analysis
13	5	Stylistic of Drama and Practical Analysis
14	5	II CIA EXAMINATIONS
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>20PEN21 : ENGLISH DRAMA</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Elizabethan Age Edward II - Christopher Marlowe ( Non - Detailed)
2	2	Elizabethan Age Edward II - Christopher Marlowe ( Non - Detailed)
3	2	Elizabethan Age Edward II - Christopher Marlowe ( Non - Detailed)
4	3	The Neo - Classical Age All for Love - John Dryden ( Non - Detailed)
5	3	The Neo - Classical Age All for Love - John Dryden ( Non - Detailed)
6	3	The Neo - Classical Age All for Love - John Dryden ( Non - Detailed)
7	3	I CIA Exam



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Romantic and Victorian Age Lady Windermere's Fan ( Non - Detailed)
9	4	Romantic and Victorian Age Lady Windermere's Fan (Non-Detailed)
10	5	Twentieth Century Literature Pygmalion - Bernard Shaw ( Detailed)
11	5	Twentieth Century Literature Pygmalion - Bernard Shaw (Detailed)
12	5	Twentieth Century Literature The Birthday Party ( Non - Detailed)
13	5	Twentieth Century Literature The Birthday Party ( Non - Detailed)
14	5	II CIA Exam
15	5	Revision & Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Pradhap</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>PEN22A : AMERICAN LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	1. Edgar Allan Poe : Israfel 2. Walt Whitman : A Passage to India 3. Emily Dickinson : 1. Success is counted the Sweetest 2. A Narrow Fellow in the Grass
2	1	4. Robert Frost : Mending Wall 5. Wallace Stevens : 1. Anecdote of the Jar 2. Peter Quince at the Clavier
3	2	1. E.E.Cummings : Among Crumbling People
4	2	2. Ezra Pound : A Pact 3. Sylvia Plath : Mirror
5	3	1. Arthur Miller : Death of a Salesman
6	3	1. Marsha Norman : Night Mother
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	1. R.W. Emerson : Self Reliance
9	4	2. H.D. Thoreau : Civil Disobedience
10	4	2. H.D. Thoreau : Civil Disobedience
11	4	2. H.D. Thoreau : Civil Disobedience
12	5	1. John Steinbeck : The Grapes of Wrath
13	5	2. Norman Mailer : An American Dream 3. William Faulkner : The Sound and the Fury
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>2</b>
Subject	<b>PEN22A : AMERICAN LITERATURE</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Unit - I POETRY – (DETAILED) 1. Edgar Allan Poe : Israfel 2. Walt Whitman : A Passage to India 3. Emily Dickinson : 1. Success is counted the Sweetest 2. A Narrow Fellow in the Grass
2	1	4. Robert Frost : Mending Wall 5. Wallace Stevens : 1. Anecdote of the Jar 2. Peter Quince at the Clavier
3	2	Unit - II POETRY – (NON DETAILED) 1. E.E.Cummings : Among Crumbling People
4	2	2. Ezra Pound : The Ballad of the Goodly 3. Sylvia Plath : Mirror
5	3	DRAMA – (DETAILED) 1. Arthur Miller : Death of a Salesman
6	3	DRAMA – (NON DETAILED) 1. Marsha Norman : Night Mother
7	3	CONDUCT OF I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Unit - IV PROSE – (DETAILED) 1. R.W. Emerson : Self Reliance
9	4	2. H.D. Thoreau : Civil Disobedience
10	4	2. H.D. Thoreau : Civil Disobedience
11	5	Unit - V FICTION 1. John Steinbeck : The Grapes of Wrath
12	5	2. Norman Mailer : An American Dream
13	5	3. William Faulkner : The Sound and the Fury
14	5	CONDUCT OF II CIA
15	5	REVISION OF ALL THE 5 UNITS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. V. R. Suresh Kumar</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>EPEN44A : ADVANCED ACADEMIC WRITING</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	a) Note -taking b) Brain Storming c) Mind Mapping
2	1	d) Writing Draft e) Language & Style, Research Proposal f) Thesis Statement
3	2	a) The Product Approach b) The Process Approach
4	2	c) Summarizing, Paraphrasing & Synthesizing d) Feedback & Evaluation
5	2	a) Strategies & Skills b) Categorizing Reading Sources c) Reading for Information d) Reading Comprehension & Vocabulary
6	3	a) Spelling b) Punctuation c) Italics d) Name of persons e) Numbers f) Titles of works in the research paper g) Quotations h) Capitalization & personal names in language
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	a) Bibliography b) Annotated Bibliography c) Parenthetical Documentation
9	4	d) Plagiarism and Academic Integrity e) Readability f) Sample References
10	5	Lectures, Seminars, Oral Presentation, Verbalizing Data, Individual Speech Difficulties.
11	5	Lectures, Seminars, Oral Presentation, Verbalizing Data, Individual Speech Difficulties.
12	5	Dictionaries, Books, Using The Library, References, Introspect and Discuss.
13	5	Dictionaries, Books, Using The Library, References, Introspect and Discuss.
14	0	II CIA
15	0	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JACKULINE SUGANTHI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>PEN32A : Shakespeare</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction _Shakespeare,The Elizabethan Theatre and Audience
2	1	Shakespearean Comedy, Shakespearean Tragedy
3	1	Shakespeare's Histories, Shakespeare 's Romances
4	2	King Lear
5	2	King Lear, Othello
6	3	Othello , sonnets no 14,17,18,28,33
7	3	The Tempest

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Tempest,1 CIA
9	2	As you Like It
10	2	As you Like It
11	4	Richard 11
12	4	Richard 11
13	4	Romeo and Juliet
14	4	Romeo and Juliet
15	5	Sonnets no 151,142,126,46,36,11CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>PEN33A : Contemporary Critical Theory</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Allen Tate:: Tension in Poetry
2	1	Allen Tate: Tension in Poetry
3	1	Northrop Frye: Milton's Lycidas
4	2	Viktor Shklovsky: Art as Technique
5	2	Viktor Shklovsky: Art as Technique
6	2	Raymond Williams: Marxism and Literature
7	3	Ernest Jones: Hamlet_ The Psycho Analytical Solution

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	I CIA
9	4	Edward Said: Crisis
10	4	Edward Said:Crisis
11	4	David Lodge: Modernism,Anti Modernism,Post Modernism
12	5	Stanley Fish:Is there a Text in this Class?
13	5	Stanley Fish:Is there a Text in this Class?,Toril Moi: Feminist, Female, Feminine
14	5	Toril Moi:Feminist Female Feminine
15	5	11 CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>18PEN41 : New Literatures</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	China Achebe:Refugee Mother and Child Walcott :Ruins of a great house
2	1	Wole Soyinka : Telephonic Conversation , Irwing Layton : Shakespeare, Lucifer Glouce:This Landscape, These people
3	2	George Bowering:A Grandfather, Jessy Macky:Noosing of the Sun God, Bruce Dawe: Homecoming
4	2	Yasmin Goonaratne:This Language, This Woman, Shirley Geok:Lina Lim- On Reading Coleridge 's Poem, Emily Liang:United We Stand
5	3	Wole Soyinka: Kongi's Harvest
6	3	Wole Soyinka : Kongi's Harvest
7	3	Ray Lowle: Summer of the seventeenth Doll

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	CIA Exam
9	4	Alice Walker: I n search of our mother's Garden
10	4	Stephen Peacock: Sunshine Sketches of a little Town
11	5	Chimamanda Adichi : Purple Hibiscus
12	5	Salmon Rushdie: Midnight's Children
13	5	Barsi Sidhwa: Ice Candy Man
14	2	CIA Exam
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. X. Ann Lanka Jeyadharshini</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>18PEN43 : Comparative Literature and Literatures in Translation</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction
2	1	Definition, Scope and relevance of Comparative Literature
3	2	Dante: Divine Comedy
4	2	Dante: Divine Comedy
5	2	St. Ilango: Silappathikaram (Canto 1: Kanalvari, Canto 2: Vazhakuraikathai)
6	3	Sophocles: Oedipus Rex
7	3	Kalidasa: Sakuntala, Anton Chekov: The Cherry Orchard



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	CIA Exam
14	2	CIA Exam
15	5	Revision
9	4	Camus:The Stranger
13	5	Thagazhi Pillai:Chemmmmeen
10	4	Prem Chand:Godan
11	4	Prem Chand: Godan
12	5	Jeyakanthan: Once an Actress

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>PEN31A : Feminist Theory and Practice</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	A Photograph of Me by Margaret Atwood
2	2	The Old Prison by Judith Wright
3	2	Phenomenal Women by Maya Angelore
4	2	The Mother by Gwendolyn Brooks
5	2	Snapshots of a Daughter-in-law by Adrienne Rich
6	2	The Female of the Species by Gauri Deshpande
7	2	Sita by Toru Dutt

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	The Affinity by Anna Wickham
9	2	My Brother, You Must not Die
10	3	Mother of 1084 by Mahasweta Devi
11	3	The Little Foxes by L. Heliman
12	3	Brides are not for Burning
13	4	Towards Feminist Poetics by Elaine Showalter
14	5	Vindication of the Rights of a Woman by Mary Wollstonecraft
15	5	Fasting, Feasting by Anita Desai All for a Husband by Ismat Chughtai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. J. P. Ida Joicey</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>18PEN42 : Post Modern Literature</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Peter Barry - Beginning Theory Chapter on Post Modern Literature
2	1	Peter Barry - Beginning Theory Chapter on Post Modern Literature
3	1	Peter Barry - Beginning Theory Chapter on Post Modern Literature
4	1	Peter Barry - Beginning Theory Chapter on Post Modern Literature
5	2	If You Forget Me by Pablo Meruda
6	4	Haruki Murakami - The Second Bakery Attack
7	0	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Edward Bond's Lear - Act I
9	3	Lear - Act I & Act II
10	3	Lear - Character Analysis, Thematic Analysis, Critical Analysis
11	5	Shashi Tharoor - Biography
12	5	The Great Indian Novel - Seminar Presentation
13	5	The Great Indian Novel - Seminar Presentation
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>3</b>
Subject	<b>PEN31A : Feminist Theory and Practice</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction
2	1	Liberal Feminism
3	1	Radical Feminism
4	1	Marxist Feminism
5	1	Socialist Feminism
6	1	Cyber Feminism,, Post Feminism
7	1	Mother of 1084

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Little Foxea
9	4	Towards Feminist Poeticd
10	4	Towards Feminist Poetics
11	4	Vindication of the Rights of a Woman
12	4	Vindication of thr Rights of a Woman
13	5	Fasting, Feasting
14	5	Fasting , Feasting
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. A. Mary</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>18PEN42 : Post Modern Literature</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Historiographic Metafiction
2	1	Historiographic Metafiction
3	1	Historiographic Metafiction
4	2	Valentine
5	2	Valentine
6	2	The Blue House
7	3	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	The Real Inspector Hound
9	4	The Real Inspector Hound
10	4	The Real Inspector Hound
11	4	The Real Inspector Hounf
12	4	The Real Inspector Hound
13	4	Revision
14	5	II CIA
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>English</b>	Semester	<b>4</b>
Subject	<b>18JPEN01 : PROJECT WORK</b>	Course	<b>English</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	5	1. Criticism from Sidney to Johnson 2. The Romantic Criticism 3. The Twentieth Century Criticism
2	5	4. Structuralism/ Semiotics 5. Post-Structuralism/ Deconstruction
3	5	6. The Greek Critics 7. The Roman Critics
4	5	8. The Classical or New Classical English Critics 9. The Victorian Critics
5	5	10. The New Historicism/ Cultural Studies 11. Moral Criticism , Dramatic Construction
6	5	12. Post- colonial Criticism 13. Marxist Criticism – Cultural History and Analysis
7	5	14. Feminist Criticism

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	6	1. Approaches and Methods to Language Teaching
9	6	2. Varieties of Language
10	6	3. English for Specific Purposes (ESP)
11	6	The Role of English today
12	6	5. English Literature with Creative Writing
13	6	6. Psychological theories of learning
14	1	Mechanics of Writing
15	2	Plagiarism & Works Cited

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>EPCM705A : MANAGERIAL ECONOMICS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Managerial Economics-Meaning-Definition-Features-Scope of Managerial Economics
2	1	Role of Managerial Economist - Objectives of a Firm- Social Responsibility of Business.
3	2	Fundamental Concepts that Aid Decision Making-Production Possibility Frontiers-Accounting profit and Economic Profit- Opportunity-Cost Principle-
4	2	Incrementalism and Marginalism-Time Perspective-Discounting Principle- Equi-Marginal principle-
5	2	Concept of Efficiency-Types of Efficiency-Case Study Method- Decision making process.
6	3	Pricing Practices-Cost oriented Pricing – Competition oriented Pricing -Pricing a New product- Peak-load pricing
7	3	International price discrimination and dumping - Cost Function – Revenue Function

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Break-Even Analysis –Determination of Break-Even point – Uses and Limitations of Break-
9	2	REVISION
10	4	Project Profitability-Traditional Methods Of Appraising Profitability-Pay Back method-Rate of Return- Time Adjusted Methods
11	4	Discounted Cash Flow Method- Net Present Value -Internal Rate of Return-Profitability Index.
12	5	Managerial practices-A shift from Linear Economy to Circular Economy-Linear Economy – Meaning – Disadvantages
13	5	Circular Economy-Meaning-Need-Benefits-Principles-Reasons for Global Attention-
14	5	Application of Circularity-Limitations of Circular Economy- Circular Economy & Business decisions in India.
15	5	REVISION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>PCM702Q : CONSUMER BEHAVIOUR</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Consumer behaviour – introduction, Meaning, definition and relevance of consumer behaviour study – growth of consumer research – trends in consumer behavior.
2	1	Models of consumer behavior: Howard Sheth model – Nicosia model – Webster and Wind model of organizational buying behavior - revision.
3	2	Consumer perception - meaning, definition and perceptual process.
4	2	Perceptual selection – perceptual organization – perceptual interpretation.
5	2	Consumer imagery and marketing implications – Sherif's social judgment theory – perceived risk – revision.
6	3	Meaning and properties of personality, theories of personality: Trait theory – Freudian theory.
7	3	Neo Freudian theory – Jung's personality types – self concept – Definition and characteristics of attitude.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of attitude.– dynamic characteristics of motivation – motivational research.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Reference Group meaning and characteristics influencing consumer behavior – types of reference groups.
11	4	Groups relevant to consumer behavior – benefits of reference group appeal – definition and meaning of culture.
12	4	Characteristics of culture – traditional and changing Indian values – sub culture – women and consumer protection rights - revision.
13	5	Meaning and definition of customerisation – relationship between consumer expectations and satisfaction – factors affecting consumer satisfaction – tackling consumer dissatisfaction – handling of customer complaints.
14	5	Meaning of consumerism – reasons behind rise of consumerism – benefits of consumerism –features of Government measures regarding consumer protection revision.
15	5	Revision of 4th & 5th units.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAMES MARY P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPCM810Q : BUSINESS ENVIRONMENT AND POLICY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Environment: Concept - Nature and scope- types– internal environment and external environment- Factors influencing business environment.
2	1	Economic – Social- Cultural - Political environment and technical environment.
3	1	Environmental analysis - Environment scanning - Monitoring - Changing dimensions in business environment.
4	2	Structures of the economy - Economic policies and conditions- Economic planning.
5	2	Industrial policy - foreign investments - Foreign technology agreements - Merits and demerits of the policy.
6	2	FEMA - Monetary and fiscal policies - New economic policy.
7	3	Political and legal Environment: Concept- Political institutions - Rationale and extent of state intervention - Reasons for state intervention - Types of intervention - Extent of Interventions.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Government Business interface – Legal environment – Competition Act 2002 - Consumer Protection act and Consumerism.
9	3	Revision of 1, 2 & 3 units
10	4	Socio Cultural Environment: Concept - Nature - Impact - Business participation in cultural affairs - Social responsibility of business.
11	4	Business and society - Business ethics-Business codes of conduct – Role of trade Association in Business ethics.
15	5	Revision of 4 & 5 units
12	5	Global Environment: Concept - Nature and scope - Rationale for global environment.
13	5	Benefits and problems of MNCs.
14	5	Strategies for going global - India, WTO and the trading blocks.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	PCM703T : INSURANCE AND RISK MANAGEMENT	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Insurance : Definition of Insurance – Insurable risk – Principles of insurance – Kinds of insurance –Costs and benefits of insurance.
2	1	Costs and benefits of insurance - Pooling in insurance –Factors that limit the insurability of risk
3	1	Factors that limit the insurability of risk – Reinsurance.
4	2	Insurance Business : Insurance business in India – Frame work of insurance business –privatization of insurance business
5	2	privatization of insurance business - Insurance Regulatory and Development Authority (IRDA)
6	2	Insurance Regulatory and Development Authority (IRDA) – Govt. Policy on insurance sector.
7	3	Introduction to Risk : Understanding Risk: Types of risk – Risk management – Objectives.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Risk identification and measurement -Pooling arrangements and diversification of risk.
9	3	Revision.
10	4	Risk Aversion : Risk aversion and demand for insurance – By individuals - By corporations.
11	4	Insurability of risk- contractual provisions - Legal doctrine.
12	4	Loss control–Risk retention and reduction decisions.
13	5	Analytical tools in Risk Management : Analytical tools used in corporate risk management – products liability.
14	5	Environmental liability – Directors and Officers liability – Issues in liability risk and management.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	2
Subject	PCM806T : FINANCIAL MANAGEMENT	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Financial Management : Introduction – Meaning – Definition – Scope – Objectives –Significance - Methods and Tools of Financial Management – Role of Finance Manager
2	1	Time value of money : Introduction - Meaning - Definition - Methods of analysis. Compounding Technique : Compounding of interest over 'n' years - Multiple Compounding periods - Effective rate of Interest - Doubling Period - Compound value of series of .
3	1	Discounting or Present value Technique : present value of lumpsum - present value of a series of cash flows - present value of an annuity - present value of annuity due - present value of a perpetuity - present value of growing perpetuity - present value.
4	2	Financial Planning : Meaning – Factors affecting financial planning – Importance –Limitations of financial planning. Capital Budgeting : meaning and techniques. Capital Budgeting Proposals : Pay back period - Accounting rate of return.
5	2	Capital Budgeting Proposals : Discounting Cash Flow Method - Net Present Value Method - Internal Rate of Return Method - Profitability Index Method.
6	3	Capital Structure : Introduction – Meaning – Definition – Features –Factors Determining Capital structure – Theories of capital structure.
7	3	Problems on Capital Structure Theories : Net Income Approach - Net Operating Approach .

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Problems on Capital Structure Theories : Traditional Approach - Modigliani and Miller Approach.
9	3	Revision
10	4	Working Capital : Introduction – Meaning – Definition – Types – Importance -Determination of working capital requirements - Forecasting of working capital requirements. Problems on Working Capital Management.
11	4	Cash Management : Introduction – Meaning - Objectives. Problems on Cash Management.
12	5	Cost of Capital : Introduction – Meaning – Definition – Importance – Components – Factors Determining cost of capital – Types of cost of capital – Computation of cost of capital. Problems on Cost of Capital.
13	5	Leverage: Introduction – Meaning – Definition – Types of Leverage. Problems on Leverage.
14	5	Dividend Policy : Introduction – Meaning Definition – Nature – Objectives – Factors determining – Dividend theories –Types of dividend.. Problems on Dividend Policy.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>PCM704S : STRATEGIC MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition – Scope – Benefits – Risks – Approaches - Process and Roles
2	1	Corporate Vision, Mission & Philosophy- Strategic Management in different contexts -Ethics and Social Responsibility
3	1	Strategic Leadership and Decision making
4	2	SWOT Analysis - Environmental Scanning and Industry analysis – Forecasting – Internal Scanning
5	2	Mission – objectives – Stakeholder Theory –
6	2	Cyert and March's Behavioral Theory -Porter's Five Forces Mode
8	3	BCG Growth /Share matrix – Strategic choice – Development of policies – Strategic Alliance.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
7	3	Business Strategy – Corporate Strategy – Divertional Strategy – Portfolio Analysis
9	3	I CIA EXAM
10	4	Organization for action – Staffing – Leading – MBO –Total Quality Management –Functional Strategies
11	4	– Growth Strategies – Diversification, Acquisition and Joint Venture – Recovery
12	4	Recession and Divestment Strategies – Management Buyout.
13	5	Establishing Strategic control – premise control – Implementation control – Strategic Surveillance – Special Alert Control
14	5	Evaluation Techniques – Managing change –Strategic issues in Managing Technology and Innovation – Strategic Effectiveness.
15	5	II CIA EXAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.RADHAKRISHNAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>PCM807A : LEGAL ENVIRONMENT OF BUSINESS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Property-meaning and definition- Transfer of Property- Types of properties- Movable and immovable property- Properties which cannot be transferred Rule against perpetuities
2	1	Lis pendents- provisions relating to sale, Mortgage, charge, lease, gift and actionable claim.
3	2	Law relating to Societies - General concept relating to registration of societies- Property of societies- suits by and against societies.
4	2	Enforcement of judgment against societies- Dissolution of societies- General concept relating to trusts
5	2	Creation of a trust- Duties and liabilities of trustees- Rights and powers of trustees, disabilities of trustees- Rights and liabilities of the beneficiary.
6	3	Law relating to Intellectual Property- Concept and development of intellectual property law in India.
7	3	Law and procedure relating to patents, trademarks and copyrights



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Geographical indications; Design act- overview of laws relating to other intellectual property rights- Intellectual property appellate board.
9	3	Revisions unit 1,2,and 3
10	4	Right to Information Act, 2005- Definitions, right to information, obligations of public authorities, request for obtaining information, disposal of request.
11	4	Exemption from disclosure of information, grounds for rejection to access in certain cases, severability- Central information commission- Its constitution,
12	4	Term of office, conditions of service and removal- Powers and functions of Central Information Commissions, appeals and penalties.
13	5	Law relating to Pollution Control and Environmental Protection- Concept of sustainable development, biodiversity and carbon credit.
14	5	Government policy regarding environment; Law relating to prevention and control of air pollution and water pollution- Environment (Protection) Act, 1986
15	5	Revisions unit 4,and 5

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAVARIMUTHU I Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>19PCM808 : MICRO,SMALL&amp;MEDIUM ENTERPRISE MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Micro, Small and Medium Enterprises - Meaning and Definitions- Historical perspectives of MSME's and categories of development in MSME's.
2	1	Characteristics-needs of MSME's-advantages and limitations-forms of small enterprises-Performance of small enterprises-Problems of Small Enterprises.
3	1	Starting an Enterprise-Entrepreneurship Memorandum-Registration-Role of MSME's in economic development - revision.
4	2	Financing MSME's –Reasons for lending to MSME's –Sources of Financing MSME's.
5	2	Loan Products and their Nature-Credit process-The Credit assessment and MUDRA Scheme - revision.
6	3	Rationale Behind tax benefits- Tax Holiday-Depreciation-Rehabilitation Allowance-Investment Allowance.
7	3	Expenditure on Scientific research-Amortization of Certain Preliminary Expenses-Tax Concession to Small-Scale Industries in Rural Areas & Backward areas.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Expenditure on Acquisition of Patents and Copyrights- Incentives and Concession for Small-Scale and Tiny Industries - revision.
9	3	Revision of units 1,2,& 3.
10	4	Need for institutional support-NSIC-SIDO-SSIB.
11	4	Need for institutional support - SISI-DIC-Industrial Estate-EDII-NIESBUD.
12	4	Organizations under the control of State Government-Incentives and Subsidies available for MSME's in India - revision.
13	5	Sick Units: Meaning and Definition - Causes of Sickness - Symptoms of Sickness-Classification of Sick Units.
14	5	Preventive Measures-Guidelines for Rehabilitation of MSME's - MSME debt Restructuring Mechanism-Willful defaulters - revision.
15	5	Revision of units 4,& 5.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SARANRAJ R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>PCM701A : QUANTITATIVE TECHNIQUES</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Probability: Basic definitions ,Axiomatic approach to Probability Basic theorems on Probability , Addition theorem on probability and related problems .
2	1	Conditional probability ,Multiplication theorem of probability and related problems .
3	1	Independent events , Pair wise Independent events (definition only) ,Baye's theorem and related problems.
4	2	Tests of Significance (small samples) based on t and F distributions with respect to mean, variance and correlation coefficient.
5	2	Chi-Square distribution: Test for independence of attributes.
6	2	Tests of significance (large samples) – Proportion, Mean, Standard deviation and Correlation Coefficient.
7	3	Analysis of Variance: One way and two way classifications. Design of experiments: ,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	CRD General procedure and related problems.
9	3	RBD General procedure and related problems LSD General procedure and related problems.
10	4	LPP-feasible and optimal solutions-Graphical method, simplex methods (excluding artificial variable techniques)
11	4	Transportation problems -North west corner method,
12	4	Least cost method and Vogel's approximation method(simple problems only)
13	5	Inventory model-General concept and definitions-
14	5	various cost concepts and simple problems
15	5	the technique of inventory control –EOQ model.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>PCM809A : ADVANCED ACCOUNTING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting - Introduction – Meaning – Definition – Objectives – Need – Significance-International Accounting Standards
2	1	Accounting Standards in India-Scope of Accounting Standards
3	1	Procedure for formulation and Issuing Accounting Standards-Applicability
4	2	Amalgamation–Introduction-Meaning(AccountingStandard14)-Typesofamalgamation-Amalgamation in the nature of Merger-In the nature of Purchase-Computation of Purchase Consideration-Lump sum method-Net payment method-Netasset method-Intrinsic value method
5	2	Absorption – Meaning-Methods- Net payment method-Netassetmethod-Intrinsicvaluemethod-
6	2	External Reconstruction–Introduction–Meaning–Methods
7	3	HoldingCompany–Introduction–Meaning–Definition-Subsidiary Company–Meaning-Capital Profit-Revenue profit-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Minority Interest – Goodwill/Capital reserve-Unrealized profit
9	3	Computation of consolidated Balance sheet
10	4	Introduction–Meaning-Business of Banking companies
11	4	Legal requirements-Preparation of Profit and loss accounts
12	4	Balance Sheet of Banking Companies
13	5	Introduction – Meaning-Types of Insurance-Preparation of final accounts of the insurance company
14	5	Life Insurance Business-Revenue Account( Form A-RA)-Profit and Loss account - Balance sheet (Form A-BS)
15	5	Accountsofgeneralinsurancecompany-Revenue account (Form B-RA)-Profit and Loss account (Form B-PL)-BalanceSheet(FormB-BS).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>PCM915Q : INTERNATIONAL MARKETING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	International marketing nature, definition and scope of international marketing
2	1	Domestic marketing by international marketing-stages of international marketing-international marketing environment.
3	1	External and internal-identifying and selecting-foreign market foreign market entry mode decision-challenges of international marketing.
4	2	Developing global market or marketing strategies-global marketing management - planning and organization .
5	2	International marketing information system-market research-marketing research - Methodology for marketing research-international research strategies - desk research and field research.
6	2	Market oriented information-international marketing intelligence competitive intelligence - understanding global consumers cultural dynamics in assessing global market.
7	3	International product policy-product positioning in foreign market-product standardization and adoption.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Brands, trademarks, packaging and labeling-international marketing of service.
9	3	International product pricing policy - export pricing - pricing for international market.
10	4	International promote policy - international advertising.
11	4	Developing international advertising strategy.
12	4	International sales force and the management other firms of promotion for global markets.
13	5	Overseas marketing channel policies - managing international distribution channels multinational retailers and whole sealers.
14	5	Global logistics-contemporary issues international marketing .
15	5	Future prospect in international marketing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>19PCM43 : INTERNATIONAL BUSINESS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning-Domestic Business vs International Business- Localisation Vs Globalisation-
2	1	Reasons for IB-Problems in International Business-
3	1	Modes of Entry in International Business-Factors affecting International Business- Recent Trends in world Trade.
4	2	Concept-Forms of environment: Economic and Social Environment-
5	2	Cultural and Political-Legal and Regulatory environment-
6	2	Natural Environment-Ethics and Social responsibilities of IB.
7	3	Absolute Cost Advantage theory- Comparative Cost Advantage Theory-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Factor Endowment Theory-Product Life Cycle Theory-
9	3	New Trade Theory -National Competitive Advantage Theory.
10	4	WTO, World Bank, : Objectives, Principles and Functions
11	4	IMF, IBRD, UNCTAD : Objectives, Principles and Functions-
12	4	Regional Economic Cooperation-Advantages and Disadvantages.
13	5	Capital Budgeting-Capital Structure of International Projects- International Working Capital Management-
14	5	Sourcing International Finance. Steps in the negotiation Process-
15	5	Behaviour and Tactics in negotiations- Approaches to International Negotiations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>EPCMP913 : COMPUTERIZED ACCOUNTING (PRACTICAL)</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Tally. Tally Accounting.
2	1	Prepare Trading and Profit and Loss Account and Balance sheet of a company.
3	1	Practical Problems and Tally Keys
4	2	Tally Vouchers.
5	2	Cost category and cost Centre.
6	2	Bank Reconciliation Statement and Scenario Management
7	3	Inventory and Stock.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Invoicing.
9	3	Interest Calculation
10	4	GST Features.
11	4	TDS Analysis.
12	4	Consolidation of Accounts.
13	5	Security control.
14	5	Display and Reporting.
15	5	Miscellaneous reports. Tally Audit

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAKUMAR R Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>EPCM41A : LABOUR AND INDUSTRIAL LAWS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Employees Provident Fund Definitions; Schemes, cases under the Act – Employees' Provident Fund Scheme
2	1	Employees' Pension Scheme, 1995;
3	1	Employees' Deposit Linked Insurance Scheme; Case laws
4	1	unit test 1
5	2	Factories Act, 1948 Definitions and cases; Authorities under the Factories Act; Health; Safety; provisions relating to hazardous processes; Welfare; Working hours of adults;
6	2	Employment of young persons; Annual leave with wages; Penalties and procedure; Case laws. Trade Unions Act, 1926:Objects; Registration of trade unions; Rights and liabilities of registered trade unions;
7	3	Employees State Insurance Act, 1948 Objects and applicability of the scheme; Definitions and cases- Personal injury, factory, manufacturing process, wages, partial and permanent disablement.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	ESI corporation; Standing committee and medical benefit council; Contributions;
9	3	Adjudication of dispute and claims, benefits; Case laws.
10	4	The Industrial Disputes Act, 1947 Objects; Authorities for settlement of industrial disputes; reference of industrial disputes, procedure, powers and duties of authorities; Settlements and awards; Strikes, lock-outs, lay-off, retrenchment,
11	4	Unfair labour practices. -Employee's Compensation Act, 1923: Definitions- dependent, employer, partial and total disablement, workmen, injury, accident;
12	4	Employer's liability for compensation; Amount of compensation :Contracting; Commissioner; Case laws.
13	5	Payment of Gratuity Act, 1972 Applicability and non-applicability of the Act; Definitions and cases -employee, employer, continuous service;
14	5	Payment of gratuity; Forfeiture of gratuity; Employer's duty to determine and pay gratuity;
15	5	Recovery of gratuity; Penalties; Case laws.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT RAVI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>PCM1017Q : E-COMMERCE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to E-Commerce - E-Trade - E-Business -E-Market – A paradigm shift –Technology Convergence.
2	1	Technology Convergence – Advantages and Disadvantages of E-Commerce – E-Business Models – Introduction to Mobile Commerce.
3	1	E-Business Models – Introduction to Mobile Commerce. - E-Marketing –Meaning - Channels- E-Marketing Mix.
4	2	E- Marketing –Meaning - Channels- E-Marketing Mix. - Web Salesmanship – online shopping avenues-
5	2	Web Salesmanship – online shopping avenues- Advertising on Network – EDI Architecture and Properties Trading.
6	3	EDI Architecture and Properties Trading. - E-Payment System– Types– Business Issues and Economic implications.
7	3	Business Issues and Economic implications – Components of an effective E-Payment System.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of an effective E-Payment System. - Electronic Data Interchange - EDI – Definition – Objectives.
9	3	Revision of 3 units
10	4	Electronic Data Interchange - EDI – Definition – Objectives- Standards –Applicability – Approving authority.
11	4	Applicability – Approving authority -Cross Index and related documents – Sources of documents.
12	4	Sources of documents. - Legal Framework for E-Commerce – Net Threats – Cyber Law
13	5	Net Threats – Cyber Laws – Aims and Salient Features of Cyber Laws in India.
14	5	Aims and Salient Features of Cyber Laws in India- Cyber Crimes – Intelligent Web Design.
15	5	Revision of all units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRASAD P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>PCM912Q : RESEARCH METHODOLOGY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Research–Meaning and Definition-Types of Research–Research Methods–Problems faced by Researcher
2	1	Research Process, Various Steps in Research Process. Review of literature–Identification Research Gap–social relevance of research-Research Problem – Sources, Identification and Developing Research Problem
3	1	Construction of Research Questions–Framing Objectives and hypotheses.
4	2	Research Design ,Concepts – Meaning, Definition and types - Variables – Meaning & Definition – Types of Variables.
5	2	Research Design-Meaning, Definition-types of Research Design–Experimental and non-Experimental Research Design
6	2	Characteristic of good Research Design–Relationship between Research Problem and Research Design.
7	3	Sample–meaning and definition-sample size-sampling design–meaninganddefinition-essentialsofgoodsamplingdesign-methodsofsampling-random and non-random sampling

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	sampling and non- sampling error- reduction of sampling errors. Data- types of data- primary data- different methods of collecting primary data-
9	3	Sampling measurement of scale and scaling techniques- construction of questionnaire- secondary data- various sources of secondary data
10	4	Steps in processing the data–editing-coding-classification-contentanalysis-tabulation-methods of tabulation.
11	4	Application of statistics in data analysis- descriptive statistics-mean,median,mode,standarddeviation-correlationandregression-inferentialstatistics-chi-square test-
12	4	ANNOVA,T-test-,F-Test-tools for testing hypothesis. Application of computer in modern research.
13	5	Research report- meaning-, types of research report- essential of good research report-stages in preparing research report
14	5	Structure of research report- preliminary pages, main body of the report and reference material- guidelines and mechanics for preparing research report.
15	5	Revision of all 5 units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAVARIMUTHU I Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>PCM911T : HUMAN RESOURCE DEVELOPMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Human Resource Development- Meaning, Features, Needs, Scope, Objectives, Functions, Process and Techniques of HRD
2	1	Functions and Attributes of HRD Management. Competency Mapping- Developing competencies- Personal Competency maturity model.
3	2	Employee Training: Introduction, Meaning, Purpose, Importance, Principles and Responsibility for training, Steps in Training Programme
4	2	Training methods – On the job training-Off the job training- Training evaluation –Principles of evaluation – Why training fails- Improving effectiveness of training.
5	3	Executive and Organization Development Introduction- Concepts and Objectives- Importance- Needs for executive development-Process of executive developments- Methods- Evaluation.
6	3	Reasons for failure of executive development programme- How to make executive development programme successfully? Organization development – meaning- characteristics- objectives.
7	3	Models- organization development interventions- individual focused- organization and group focused- factors influencing the choice of an organization development intervention - salient issues in organization development.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Introduction to group Dynamics - Group-Meaning, types, why people join Group?- Group Norms
9	4	Revision of 1st, 2nd & 3rd units.
10	4	Group cohesiveness- Group behavior models of Homans- Techniques for studying group behavior- Bales Laboratory technique and Sociometric analysis
11	4	Principles of group dynamics.
12	5	Career planning – meaning and need for Career planning – process of career planning and development.
13	5	Succession planning - Career development – steps – career development actions
14	5	Career development actions – career development initiatives and challenges - advantages of Career planning and development – recent trends.
15	5	Revision of 4th & 5th units.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CELINE HILDA MARY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>EPBC14A : CLINICAL NUTRITION</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction_Balnced diet, composition, fiber in diet calorific values
2	1	Biological value of protein, chemical score, Protein calorie malnutrition.
3	1	Fats _essential fatty acids,,Refdums diseases,atherosclerosis, fatty liver
4	2	BMR Measurements,Benedicts Roth apparatus, Anthropometry
5	2	BMI, SDA, Respiratory quotient
6	3	Classification of vitamins_ RDA,functiona and deficiency
7	3	Minerals_ RDA, functions and deficiency



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Objectives of diet therapy, Glycemic index, nutritional management of obesity
9	4	Nutritional management of Diabetes mellitus, Renal disorders
10	4	Nutritional management of Neurological disorders
11	4	Nutritional requirements at different stages of life
12	5	Neutraceuticals_ adverse effects ,functional food
13	5	Probiotics and prebiotics_ types and health benefits
14	5	Antioxidants ,role of antioxidants in human health
15	5	Phytochemicals_ health benefits

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CELINE HILDA MARY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>PBC22A : ENZYMOLOGY</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction, Classification and Nomenclature of enzymes - General characteristics of enzyme activity, Factors affecting enzyme activity
2	1	Assay of enzyme activity, Units of enzyme activity.
3	2	Concept of ES complex, collision, transition state theories and energy of activation
4	2	Derivation of Michaelis-Menten equation for uni- substrate reactions. Different plots for the determination of $K_m$ , $V_{max}$ and their significance.
5	2	Turn over number. The rate of expression for Bisubstrate reactions for Ping Pong, random & ordered Bi-Bi mechanisms. Multienzyme complex and its function with reference to PDH.
6	3	MECHANISM OF ENZYME ACTION -Acid-base catalysis, covalent catalysis, metal ion catalysis, proximity, orientation effect.
7	3	Active site – definition , common features of active site – Investigation of active site structure – trapping ES complex, Use of substrate analogue,. Modification of aminoacid side change by single chemical procedure.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Strain& distortion theory.Lock and Chemical modification of active site groups. Site directed mutagenesis of enzymes. Mechanism of action of chymotrypsin and lysozyme.
9	4	General mechanisms of enzyme regulation, product inhibition.Reversible and irreversible.Covalent modifications of enzymes.
10	4	Allosteric enzymes - positive and negative co-operatively with special reference to aspartate transcarbamoylase& Phosphofructokinase.
11	5	INHIBITION AND APPLICATION - [15hrs] Irreversible, reversible- competitive, noncompetitive, uncompetitive inhibition.
12	5	Kinetic differentiation and Graphical analysis- Suicide inhibition.
13	5	Immobilized enzymes-methods of immobilization-applications of immobilized enzymes
14	5	Purification of enzymes and characterization of enzymes.
15	5	Industrial enzymes and its application.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	PBC12A : CELLULAR BIOCHEMISTRY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Structure and functions of organelles: nucleus, mitochondria,
2	1	Structure and functions of organelles :endoplasmic reticulum, golgi apparatus ,lysosomes, ribosomes & peroxisomes.
3	1	Structure a Membrane Models, Membrane lipids: fluidity, asymmetry and phase transition.
4	1	Membrane proteins - Types, proteins on RBC membrane, Purification of subcellular organelles
5	2	Cell-Cell interaction: ECM, Collagen, hyaluronan & proteoglycans,
6	2	Cell-Cell interaction: ECM - laminin, integrins and fibronectins. Gap junction
7	2	Cell-Cell adhesion: Specialized junctions - Desmosomes, tight junctions. Adhesion molecules: Cadherins and Connexins.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Overview of cell cycle and its control. Checkpoints in cell cycle
9	5	cell cycle - cycle regulation
10	5	Apoptosis (Programmed cell death) - Pathways,
11	5	Apoptosis (Programmed cell death)-regulators & effectors in apoptosis.
12	5	Necrosis and Autophagy.
14	5	Cancer: types & properties of cancer cells
13	5	Cancer: types & properties of cancer cells
15	5	Tumor suppressor genes

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	1
Subject	PBCP11A : BIOORGANIC CHEMISTRY PRACTICAL - I	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Qualitative Analysis of Carbohydrates
2	2	Qualitative Analysis of Amino acids
3	3	Estimation of Ascorbic Acid (Vitamin C)
4	4	Estimation of Protein by Lowry's Method
5	5	Estimation of Ash Content Estimation of Moisture Content
6	6	Determination of Protein by Bradford Method
7	7	Estimation of Pyruvate

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Estimation of Tryptophan
9	9	Isolation and Estimation of DNA
10	10	Extraction and Estimation of DNA
11	11	Extraction and Estimation of RNA
12	12	Separation of Amino acids by Paper Chromatography
13	13	Separation of Sugars by Paper Chromatography
14	14	Separation of Plant Pigment by Column Chromatography
15	15	Extraction and Estimation of Total Lipid Estimation of Glycogen in Liver

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	2
Subject	PBC23A : BIOCHEMICAL TECHNIQUES	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principle, instrumentation and applications of thin layer, gas chromatography and HPTLC. Column chromatography-packing, loading, elution and detection.
2	1	Ion-exchange chromatography-preparation of resins, procedure and applications. Molecular exclusion chromatography-principle, gel preparation, operation and applications. Affinity chromatography- principle, materials, procedure and applications.
3	1	Affinity chromatography- principle, materials, procedure and applications .HPLC- principle, materials, instrumentation and applications,
4	1	principle, materials, instrumentation and applications of UPLC, UHPLC .
5	2	Electrophoresis: General principles. Support media. Cellulose acetate electrophoresis. Electrophoresis of proteins-native gels,
6	2	Cellulose acetate electrophoresis. Electrophoresis of proteins-native gels,
7	2	SDS-PAGE, gradient gels, isoelectric focusing



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	2-D PAGE. Detection, estimation and recovery of proteins in gels.
9	5	Detection and measurement of radioactivity– GM counter,
10	5	Solid and liquid scintillation counting, Applications of radioisotopes in biology. Autoradiography.
11	5	Principle and application SEM, and AFM,
12	5	Principle and application FACS
13	5	Principle and application of Phase contrast Microscopy,
14	5	Principle and application of Fluorescence Microscopy,
15	5	Principle and application of , Inverted Microscopy.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANITHA R	Academic Year	2022-2023
Department	Bio Chemistry	Semester	2
Subject	PBC23A : BIOCHEMICAL TECHNIQUES	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Centrifugation–principle,
2	3	types of centrifuges
3	3	rotors-types
4	3	preparative centrifugation– types, instrumentation and applications
5	3	Analysis of subcellular fractions.
6	3	Analytical ultracentrifuge– instrumentation and applications.
7	3	Sedimentation velocity and sedimentation equilibrium.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Laws of absorption and absorption spectrum., UV-visible spectrophotometry and spectrofluorimetry. Flame spectroscopy– principle and applications of atomic absorption and flame emission. NMR, FTIR, mass spectroscopy: principle, instrumentation and appli...
9	4	UV-visible spectrophotometry and spectrofluorimetry.
10	4	Flame spectroscopy– principle and applications
11	4	principle and applications of atomic absorption
12	4	principle and applications of NMR
13	4	principle and applications of FTIR,
14	4	principle and applications of mass spectroscopy:
15	4	principle, instrumentation and application. LCMS, GCMS, ICPMS.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEETHA LAKSHMI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>EPBC24B : DEVELOPMENTAL BIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Production of gametes
2	1	cell surface molecules in sperm-egg recognition in animals
3	1	embryo sac development
4	1	double fertilization in plants;
5	1	mammalian cleavage
6	1	gastrulation & Infertility and its management
8	3	limb development and regeneration in vertebrates

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	differentiation of neurons
10	3	post embryonic development- larval formation, metamorphosis
12	3	sex determination
13	5	Ageing- theories of ageing, senescence, programmed cell death (Apoptosis).
14	5	Stem cells- properties, markers commonly used in stem cells,
15	5	embryonic stem cells and applications
7	3	Eye lens induction
11	3	environmental regulation of normal development

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>1</b>
Subject	<b>PBC11A : CHEMISTRY OF BIOMOLECULES</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Carbohydrates: classification-properties of monosaccharides and disaccharides.
2	1	Polysaccharides– occurrence, structure and biological functions of cellulose & chitin
3	1	starch and glycogen.
4	1	Bacterial cell wall polysaccharides and blood group antigens.
5	1	Glycosaminoglycans – structure and biological role of hyaluronic acid, chondroitinsulfate
6	1	heparin. Sialic acid – structure and significance
7	1	Proteoglycans and their biological importance.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	DNA double helical structure – Watson and Crick model.
9	4	A, B and Z forms of DNA.
10	4	DNA supercoiling and linking number.
11	4	Properties of DNA – buoyant density, viscosity, denaturation and renaturation
12	4	The cot curve, Major classes of RNA – mRNA, rRNA,
13	4	Major classes of RNA – tRNA, snRNA,
14	4	Major classes of RNA –,micro RNA,
15	4	Sno RNA – structure and biological functions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>2</b>
Subject	<b>PBC21A : MOLECULAR BIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	2	Catalytic roles of RNA, RNA Editing
15	5	Disease associated with DNA repair problems
1	1	Reverse transcriptase
2	1	Replication in RNA Virus
3	1	Eukaryotic replication
4	1	Inhibitors of replications
5	2	Split genes, overlapping genes



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	2	Eukaryotic transcription
7	2	Spliceosome machinery
8	2	Alternative splicing, polyadenylation and capping
9	2	Processing of rRNA and tRNA
11	2	Post transcription modifications of eukaryotes
12	3	Genetic code- deciphering, codon dictionary, post translational modifications
13	5	Mutagenesis, different types of DNA damages, recognition, DNA repair system including photoreactivation and SOS repair
14	5	Excision repair, mismatch repair, recombination repair

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CELINE HILDA MARY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>PBCP303 : CLINICAL BIOCHEMISTRY &amp; IMMUNOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Estimation of cholesterol, Estimation of Urea
2	1	Estimation of creatinine and phospholipids
3	1	Estimation of triglycerides, glucose
4	1	Estimation of SGPT and SGOT
5	1	Estimation of Alkaline phosphatase and acid phosphatase
6	1	Estimation of glutathione peroxidase
7	1	Estimation of vitamin A, and vitamin E

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Estimation SOD and Catalase
9	2	Collection of blood, Blood grouping,
10	2	Clotting time, bleeding time
11	2	ESR, RBC, WBC count
12	3	Urine analysis
13	5	Immunoelectrophoresis
14	5	Separation of DNA by electrophoresis
15	1	Model exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CELINE HILDA MARY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>19PBC32 : IMMUNOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Introduction_ Antigen,antibody Basic structure of antibody and classes
2	2	Antigenic determinants and types,Aduvants,epitope and paratopes
3	2	Immunoglobulin organizations,expression and rearrangement of heavy and light chain
4	2	Diversity of immunoglobulin
5	2	Clonal selection theory, Monoglonal antibody production
6	2	Immunogenicity and antigenicity and factors affecting it
7	3	MHC Types structure and function ,HLA complex

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cytotoxicity immunological memory
9	3	.immunotolerance,and immuno suppression
10	3	Transplantation immunology_ kidney and skin
11	5	Cytokines,structure and function complement components
12	5	Principle and applications of precipitation reactions
13	5	Agglutination reaction Hemagglutination,bacterial agglutination
14	5	Widal test, Radioimmuno assay,ELISHA,FISH.
15	5	Immunofluorescence ,complement fixation test, Immuno histochemistry

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LEEMA ROSE MARY D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>19PBC31 : CLINICAL BIOCHEMISTRY AND CLINICAL RESEARCH</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Diabetes mellitus-classification,
2	1	Role of tissues and hormones in the maintenance of blood sugar.stages of diabetes-metabolic abnormalities,
3	1	acute complications – diabetic ketoacidosis –hyper osmolar, non-ketotic coma.
4	1	Long-term complications – diabetic retinopathy, Neuropathy and Nephropathy, Cataract, GTT, HbA1C and its significance.
5	2	Heme metabolism -Jaundice- classification, biochemical findings
6	2	Liver function tests based on bile pigments, SGOT, SGPT, plasma proteins- A: G ratio, Prothrombin time.
7	2	LFT-Detoxification function: Hippuric acid excretion, BSP dye test and metabolic functions -Galactose tolerance test,Gall stones



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Gastric Function Test: Physical examination of gastric contents-basal and maximal secretion.Stimulation tests – histamine,alcohol and Pentagastrin-FTM analysis-Azure A test-Analysis of gastric contents,
9	2	Disorders of gastric function- Peptic ulcer, Gastritis and hypoacidity and hyper acidity.
10	4	Thyroid function test- Radioactive Iodine uptake, serum PBI.
11	4	Thyroid function test-Dynamic function test - T3 suppression test, TSH & TRH stimulation Test
12	4	dexamethasone suppression test, Metyrapone test. Leptin, Prostate specific antigen and Obesity.
13	4	Leptin, Prostate specific antigen and Obesity.
14	1	Revision
15	2	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LEEMA ROSE MARY D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>19PBC41 : HUMAN PHYSIOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Digestion-Digestive system of man, Digestive processes at various regions of digestive system- Liver, stomach, pancreas, gallbladder & intestine
2	1	Composition, functions and regulation of saliva, Composition, functions and regulation of gastric, pancreatic secretion
3	1	Composition, functions and regulation of intestinal juice and bile secretions, Digestion and absorption of carbohydrates, lipids, proteins and nucleic acids.
4	2	Renal system- structure of kidney & nephron- glomerular filtration, tubular reabsorption of glucose, water and electrolytes and tubular secretion. Mechanism of formation of urine
5	2	homeostatic regulation of water and electrolytes, countercurrent mechanism. Regulation of acid-base balance. Role of renin-angiotensin & ADH, renal failure.
6	3	Respiratory system – functional anatomy of air passages and lung respiratory muscles, mechanism of respiration, pulmonary ventilation, alveolar surface tension, lung volumes and capacities.
7	3	Gas-exchange in the lungs & Blood, Regulation of respiration- Role of 2,3-diphosphoglycerate, Bohr's effect and chloride shift, oxygen toxicity & therapy, artificial respiration.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cardiac system – physiologic anatomy of heart- genesis and spread of cardiac impulses-coronary cycle, cardiac cycle
9	4	heart sound, cardiac output, cardiovascular regulatory mechanisms, E.C.G-Measurement Of ECG.
10	4	Composition of blood,blood coagulation – mechanism and regulation.fibrinolysis,anticoagulants
11	5	Nervous system-structure of neuron and synapse-basic functions of synapses & neurotransmitters.
12	5	Mechanism of transmission of impulse -synaptic transmission, neuromuscular junction.
13	5	Central nervous system-Cerebrospinal fluid.Basis of EEG, sleep, learning & memory.
14	5	Muscles - types of muscle -skeletal and smooth muscle- Molecular basis of muscle contraction
15	4	revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LEEMA ROSE MARY D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>19EPB43A : PHARMACOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Mechanism of action of drugs used in therapy of respiratory system(cough- eg-chlorpheniramine, Diphenhydramine,
2	4	bronchial-asthma-eg.,salbutamol, methylxanthines, pulmonary tuberculosis
3	4	General principles& mechanism involved in the chemotherapy of cancer(antimetabolites, alkylating agents, antibiotics.
4	4	Anti-thyroid drugs eg.Carbimazole
5	4	oral Antidiabetic drugs eg-sulfonylurea, biguanide.
6	4	Anti-BP drugs (adrenergic blockers).
7	4	revision

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Agonist and Antagonist
9	2	Drug receptor- localization, types and sub types
10	2	models and theories of drug
11	2	Drug receptor interactions-G-protein coupled receptor
12	2	Drug receptor interactions-Acetylcholine receptor, Tyrosine kinasedrug
13	2	receptor interactions- steroid hormone receptor
14	4	revision
15	5	revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	JPBC1016 : PROJECT	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DISCUSSION WITH PROJECT STUDENTS
2	2	SELECTION OF TOPIC
3	3	SELECTION OF TOPIC
4	4	COLLECTION OF ARTICLES,
5	5	SELECTION OF PARAMETERS
6	6	ISOLATION & EXTRACTION OF COMPOUND
7	7	ANALYSIS OF SAMPLE

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	ANALYSIS OF SAMPLE
9	9	ANALYSIS OF SAMPLE
10	10	ANALYSIS OF SAMPLE
11	11	INTRODUCTION - CORRECTION
12	12	REVIEW OF LITERATURE- CORRECTION
13	13	MATERIALS & METHOD - CORRECTION
14	14	RESULTS-CORRECTION
15	15	DISCUSSION-CORRECTION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	3
Subject	19PBC32 : IMMUNOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Types of Immunity-innate, acquired, Humoral & Cell mediated immunity,).
2	1	Antigen processing & presentation by B-cell and T-cell.
3	1	Cells of the immune system-structure &function of mononuclear phagocytes, Phagocytosis process, Dendritic cells,
4	1	Cells of the immune system-structure &function of Granulocytes, Kupffers cell, Osteoclasts, Microglial cell, Null cell, Mast cell & APC.
5	1	Organs of the immune system- structure and function of primary -bone marrow, thymus,
6	1	Organs of the immune system- structure and function of secondary lymphoid organs - lymph node & spleen
7	1	lymphocyte development,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Type I-components, mechanism & consequences of type I.
9	4	Type II- Transfusion reaction and Hemolytic disease of the newborn
10	4	Type II- Transfusion reaction drug induced hemolytic anemia
11	4	Type -III Hypersensitivity
12	4	Type- IV Hypersensitivity
13	4	Auto immunity- organ & specific autoimmunity
14	4	Systemic autoimmune diseases - eg.Grave's disease, Hashimoto's thyroiditis,.
15	4	Systemic autoimmune diseases -SLE& Rheumatoid arthritis. Treatment of autoimmune diseases.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	19PBC42 : RESEARCH METHODOLOGY AND BIOSTATISTICS	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Research definition, importance & need for research ethics, selection of topic,
2	1	mode of collection of literature,, review of literature, and preparation of manuscript,
3	1	, preparation of manuscript,
4	1	, features of abstract, yearbooks, books & monograph ,
5	1	, journals, conference proceedings,
6	1	abstracting and indexing journals, notes & index cards,
7	1	internet and, magazines. .

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Research design.References-Vancouver and Harvard system.
9	2	Collection and classification of data -primary data
11	2	Frequency Distribution-Simple and Cumulative.
12	2	. Displaying data-Histogram, Bar chart, Frequency polygon, Pie chart, less than & more than Ogives.
13	2	, Measures of Central tendency. Mean (arithmetic, harmonic & geometric)
14	2	.Median & types
15	2	mode.& types
10	2	classification of data -secondary data

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LAWRENCE A	Academic Year	2022-2023
Department	Bio Chemistry	Semester	4
Subject	19EPB43A : PHARMACOLOGY	Course	Bio Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Drug: Definition. Classification of drugs based on their sources (plant, animal, & synthetic).
2	1	.Dosages-single and multiple
3	1	Routes of administration of drugs
4	1	Routes of absorption. Of drugs
5	1	Factors modifying drug absorption
6	1	Distribution of Drugs – structural features and pharmacological activity, prodrug concept.
7	1	.Metabolism and excretion of drugs-phase-I, II reaction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Action of cytochrome P450. Microsomal & non-microsomal metabolism of drugs, drug metabolizing enzymes.
9	5	Antimalarial drugs –mode of action of chloroquine,
10	5	Antimalarial drugs –mode of action of , quinine,
11	5	, Antifungal drugs – mode of action of chlorphenesin, griseofulvin and candicidin.
12	5	., Antiviral drugs - mode of action of idoxuridine, acyclovir and amantadine hydrochloride.
13	5	. Antiviral drugs - mode of action of idoxuridine, acyclovir and amantadine hydrochloride.
14	5	Anti-microbial drugs- sulfonamides, trimethoprim, penicillin, aminoglycosides.
15	5	. Anti-microbial drugs- sulfonamides, trimethoprim, penicillin, aminoglycosides.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEETHA LAKSHMI</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>19EPB43A : PHARMACOLOGY</b>	Course	<b>Bio Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	introduction to pharmacokinetics
2	3	Drug tolerance
3	3	Drug dependence
4	3	Principles of basic pharmacokinetics
5	3	Adverse response to drugs
6	3	pharmacogenetics
7	3	drug intolerance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	drug allergy
9	3	tachyphylaxis
10	3	drug abuse
11	3	drug potency
12	3	factors modifying drug potency
13	3	introduction to Drug assay- chemical assay
14	3	bioassay
15	3	immunoassay

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SILVAN S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>4</b>
Subject	<b>19PBC42 : RESEARCH METHODOLOGY AND BIOSTATISTICS</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ethics in animal experimentation and overview about other bioethics .
2	4	CPCSEA guidelines - Animal care, feed, bedding, water, sanitation and cleanliness, waste disposal,
3	4	anesthesia and euthanasia. Ethics in food and drug safety.
4	4	Patenting - definition of patent. Product and process patent. Procedure for patent drafting.
5	5	FPLC, HPTLC, Capillary electrophoresis,
6	5	Mass spectrometry, Circular dichroism - DNA sequencing, FISH
7	5	RFLP& RAPD -techniques & application. PCR Technique- Basic principle,



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Real time PCR & In Situ PCR. Applications of PCR.
9	3	Measures of Dispersion for biological characters – Quartile Deviation, Mean Deviation
10	3	Standard deviation. Correlation
11	3	regression Co-efficient, levels of significance,
12	3	Student t test, Chi square test.
13	3	F test for equality of variances,
14	3	Six sigma and Minitab,
15	3	ANOVA –one way and two way classification.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	1
Subject	PCH11B : ORGANIC CHEMISTRY-I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	UNIT – III REACTIVE INTERMEDIATES Structure, reactivity, formation, stability, and reactions involving free radicals,
2	3	Long and short-lived free radicals. Addition of free radicals to olefinic double bonds.
3	3	Aromatic radical substitutions: Decomposition of diazocompounds,
4	3	phenol –coupling, sandmeyer reaction, Gomberg reaction, Pschorr reaction, Ullmann reaction, Hunsdiecker reaction.
5	3	benzynes, carbenes and nitrenes.
6	2	Unit II PHYSICAL ORGANIC CHEMISTRY Introductory physical organic chemistry: Acids and Bases, HSAB, the equilibrium constant,
7	2	Thermodynamic effect, kinetic effects – thermodynamic and kinetic control of organic reactions.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Hammond postulate, Curtin – Hammett principle. Hammett equation – Application to organic reactions. Methods of determining reaction mechanism –Non-kinetic methods-
9	2	Product analysis; Determination of the presence of intermediates-isolation, detection, trapping; cross-over experiments, isotopic labeling and isotope effects,
10	2	stereochemical evidences. Kinetic methods - the relation of the rate with the mechanism of the reaction.
11	5	Mechanism – study of the following oxidation reactions– oxidation of alcohols with Cr(VI)and Mn reagents –
13	5	Formation of C = C bonds- Wittig reaction, Formation of C – C bonds by dehydrogenation, dehydrogenation by Quinones, Hg(OAc) <sub>2</sub> and Pb(OAc) <sub>4</sub> .
14	5	Formation of C – C bond by phenol coupling and acetylene coupling – allylic oxidation-SeO <sub>2</sub> , oxidation of alcohols, glycols, halides and amines to aldehydes and ketones,
15	5	oxidation of Olefinic double bonds and unsaturated carbonyl compounds – oxidative cleavage of C – C bond. Synthetic
12	5	oxidation of methylene to carbonyl, oxidation of aryl methanes – Etard reaction

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	19PCH21 : ORGANIC CHEMISTRY-II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	UNIT – II: ALIPHATIC NUCLEOPHILIC AND ELECTROPHILIC SUBSTITUTION Substitution at saturated reaction center (carbon). SN1, SN2, SNi mechanisms – Reactivity, structural and solvent effects.
2	2	Neighbouring group participation – substitution in Norbornyl and bridgehead systems – Substitution at carbon doubly bonded to oxygen.
3	2	Alkylation and acylation of active methylene carbon compounds, hydrolysis of esters.
4	2	SE1, SE2, SEi mechanisms – reactivity. Hell-Volhard-Zelinsky reaction,
5	2	Stork – enamine reaction. Decarboxylation of aliphatic acids.
6	4	UNIT – IV AROMATIC ELECTROPHILIC SUBSTITUTION The arenium ion mechanism – Orientation and reactivity
7	4	– typical reactions – nitration, halogenation, alkylation, acylation, and diazonium coupling.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Reimer- Tiemann, Vilsmeier- Hack, Gattermann, Kolbe reactions.
9	4	Synthesis of di- and trisubstituted benzenes. Electrophilic substitution of furan, pyrrole, thiophene, and pyridine- N- oxide.
10	4	Synthesis of di- and trisubstituted benzenes. Electrophilic substitution of furan, pyrrole, thiophene, and pyridine- N- oxide.
11	5	UNIT – V AROMATIC NUCLEOPHILIC SUBSTITUTION Methods for the generation of benzyne intermediate and reactions of aryne intermediate.
12	5	Methods for the generation of benzyne intermediate and reactions of aryne intermediate.
13	5	Nucleophilic substitution involving diazonium ions.
14	5	Aromatic nucleophilic substitution of activated halides. Zeigler alkylation. Chichibabin reaction. Problems.
15	5	Aromatic nucleophilic substitution of activated halides. Zeigler alkylation. Chichibabin reaction. Problems.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>PCHP201 : ORGANIC CHEMISTRY PRACTICAL-I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Organic analysis- Demo
2	2	Organic mixture I
3	3	Organic mixture II
4	4	Organic mixture III
5	5	Organic mixture IV
6	6	Organic mixture V
7	7	Preparation - I

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Preparation - II
9	9	Preparation - III
10	10	Preparation - IV
11	11	Organic mixture VI
12	12	Organic mixture VII
13	13	Test
14	14	Viva voce Examination
15	15	Model Examination

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN MARIANATHAN M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>PCHP201* : ORGANIC CHEMISTRY PRACTICAL-I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - Organic Analysis
2	1	Pilot , Bulk Separation Demo
3	1	Solubility , Aromatic ?aliphatic Demo
4	1	Saturation / Unsaturation Demo
5	1	Special Elements Demo
6	1	Organic compound 1
7	1	Organic compound 2



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Organic compound 3
9	1	Organic compound 4
10	1	Organic compound 5
11	1	Organic compound 6
12	1	Organic compound 7
13	1	Organic compound 8
14	1	Organic compound 9
15	1	Model Examination

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## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANTONY SANDOSH T	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	19PCHP23 : PHYSICAL CHEMISTRY PRACTICAL-I	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Physical Chemistry Practical-Experiment 1.
2	2	Physical Chemistry Practical-Experiment 2.
3	3	Physical Chemistry Practical-Experiment 3.
4	4	Physical Chemistry Practical-Experiment 4.
5	5	Physical Chemistry Practical-Experiment 5.
6	1	Physical Chemistry Practical-Experiment 6
7	2	Physical Chemistry Practical-Experiment 7.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Physical Chemistry Practical-Experiment 8.
9	4	Physical Chemistry Practical-Experiment 9.
10	5	Physical Chemistry Practical-Experiment 10.
11	1	Physical Chemistry Practical-Experiment 11.
12	2	Physical Chemistry Practical-Experiment 12.
13	3	Revision
14	4	Model Practicals
15	5	Model Practicals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANTONY SANDOSH T	Academic Year	2022-2023
Department	Chemistry	Semester	1
Subject	19PCHP23* : PHYSICAL CHEMISTRY PRACTICAL - 1	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Physical chemistry Practical- Experiment 1
2	1	Physical chemistry Practical- Experiment 2
3	1	Physical chemistry Practical- Experiment 3
4	2	Physical chemistry Practical- Experiment 4
5	2	Physical chemistry Practical- Experiment 5
6	2	Physical chemistry Practical- Experiment 6
7	3	Physical chemistry Practical- Experiment 7

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Physical chemistry Practical- Experiment 8
9	3	Physical chemistry Practical- Experiment 9
10	4	Physical chemistry Practical- Experiment 10
11	4	Physical chemistry Practical- Experiment 11
12	4	Physical chemistry Practical- Experiment 12
13	5	Physical chemistry Practical- Experiment 13
14	5	Physical chemistry Practical- Experiment 14
15	5	REVISIONS

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PAUL AROKIADOSS</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>19PCH12 : INORGANIC CHEMISTRY-I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Crystal field theory- Splitting of d-orbitals in octahedral, tetrahedral and square planar complexes
2	2	crystal field stabilization energy-calculation of CFSE in octahedral complexes-
3	2	Consequences of CFSE – factors affecting CFSE
4	2	low spin and high spin complexes-explanation of magnetic properties and color of complexes using CFT
5	2	Jahn-Teller distortion and its consequences
6	3	Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interaction
7	3	trends in stepwise constants, factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand, chelate effect and its thermodynamic origin.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determination of stability constants by Potentiometric, Polarography
9	3	Spectrophotometric techniques – Jobs method
10	5	Polyacids: Isopolyacids
11	5	hetereopolyacids of vanadium, chromium, molybdenum, and Tungsten.
12	5	Inorganic Polymers
13	5	Silicates – structure, properties and applications
14	5	polysulphur – nitrogen compounds
15	5	organophosphazenes and Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>PCHP202S : INORGANIC CHEMISTRY PRACTICAL-I</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Inorganic cation demo classes
2	2	Inorganic salt mixtures-1
3	3	Inorganic salt mixtures -2
4	4	Inorganic salt mixtures-3
5	5	Inorganic salt mixture-4
6	6	Inorganic salt mixtures-5
7	7	Inorganic salt mixtures-6



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Estimation of magnesium
9	9	Estimation of zinc
10	10	Estimation of copper
11	11	Preparation-1
12	12	Preparation-2
13	13	Preparation-3
14	14	Viva questions discussion
15	15	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>IMMANUEL S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>PCHP202S* : INORGANIC CHEMISTRY PRACTICAL - 1</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Inorganic salt-1
2	2	Inorganic salt-2
3	3	Inorganic salt-3
4	4	Inorganic salt-4
5	5	Inorganic salt-5
6	6	Inorganic salt-6
7	7	Inorganic salt-7

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Inorganic salt-8
9	9	Inorganic salt-9
10	10	Inorganic salt-10
11	11	Estimation of Zinc
12	12	Estimation of Mg
13	13	Estimation of Calcium
14	14	Estimation of EDTA
15	15	Preparation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	DAVID AMALRAJ S Dr	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	19PCH21 : ORGANIC CHEMISTRY-II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conformations of some simple 1,2 – disubstituted ethane derivatives
2	1	Conformational analysis of disubstituted cyclohexanes and their stereochemical features
3	1	Confirmation and reactivity of substituted cyclohexanol(oxidation and acylation)
4	1	cyclohexanone. (reduction) and cyclohexane carboxylic derivatives (esterification and hydrolysis)
5	1	Conformations and Stability of - cis and trans-Decalins -9 – methyl decalin
6	3	Electrophilic, nucleophilic and free radical mechanisms of addition to carbon-carbon multiple bonds
7	3	Electrophilic, nucleophilic and free radical mechanisms of addition to isolated and conjugated multiple bonds

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Hydration, hydroxylation, hydroboration. Stereochemical aspects
9	3	Nucleophilic addition reactions of carbonyl compounds: Aldol, Perkin, Stobbe, Claisen
10	3	Nucleophilic addition reactions of carbonyl compounds: Dieckmann, Benzoin condensation, Mannich
11	3	Nucleophilic addition reactions of carbonyl compounds: Reformatsky, Grignard, Robinson Annulation and Shapiro reactions
12	3	Elimination reactions: E1, E2, and E1CB mechanism
13	3	Hofmann and Saytzeff rules. Dehydration, dehydrohalogenation, and dehalogenation
14	3	Stereochemistry of E2 elimination in cyclohexane systems
15	3	Mechanism of pyrolytic eliminations. Chugaev and Cope eliminations

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>19EPCH24 : REAGENTS AND NAMING REACTIONS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Recognition of chiral structures – R & S, E & Z nomenclature, (including allene, biphenyl & spiranes)
2	1	diastereoisomerism in acyclic systems. Conformational analysis of simple cyclic and acyclic systems & their effect on the reaction
3	1	Interconversion of Fischer, Newman, and Sawhorse projections.
4	1	Asymmetric synthesis - newer methods. Enantiotopic and diastereotopic ligands and faces.
5	2	Methods of determining reaction mechanism – reactive intermediates – carbocations, carbanions, carbenes, nitrenes, arynes, and free radicals
6	2	Nucleophilic and electrophilic substitutions and additions to multiple bonds.
7	2	Elimination Reactions. Kinetic isotope effects. Hammett equation – Neighbouring group participation.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Palladium-catalyzed Coupling Reactions: Heck, Suzuki, Stille, Sonogashira
9	3	Palladium-catalyzed Coupling Reactions: Kumuda, Buchwald-Hartwig, Negishi, and Himaya.
10	3	Favorskii, Stork – enamine, Mannich, Michael, Baeyer – Villiger
11	3	Shapiro, Hoffmann – Loffler – Freytag reactions.
12	3	Routine functional group transformations. Oppenaur Oxidation, Meerwein - Ponndorf – Verley, Simmons – Smith reaction
13	5	Green Chemistry – Genesis and concept of Green Chemistry, Principles, Strategies
14	5	Alternative Techniques in Organic Synthesis
15	5	Use of microwave, ultrasound, ionic liquids, supercritical solvents in organic synthesis; Multi-component reactions

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>2</b>
Subject	<b>19PCH22 : INORGANIC CHEMISTRY-II</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Electronic Spectra of Transition Metal Complexes
2	2	spectroscopic ground states
3	2	Orgel and Tanabe-Sugano diagrams for transition metal complexes (d1-d9 states)
4	2	Nephelauxetic effect
5	2	calculations of Dq, B, and $\beta$ parameters.
6	2	Charge Transfer spectra – Comparison of CT and d-d spectra
7	3	Basic concepts of Nanoscience and technology – Quantum wire



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Quantum well – Quantum dot-Biomedical applications of nanotechnology
9	3	Properties and technological advantages of Nanomaterials
10	3	Nanotubes and applications – Principles of SEM, TEM and AFM.
11	5	Nuclear Chemistry: Modes of Radioactive Decay: Orbital electron capture: nuclear isomerism, internal conversion
12	5	detection and determination of activity by cloud chamber, nuclear emulsion, bubble chamber, G.M., Scintillation, and Cherenkov counters
13	5	G.M., Scintillation, and Cherenkov counters. Nuclear Reaction: Types, reactions, cross-section, Q-value, threshold energy, compound nucleus theory: high energy nuclear reaction, nuclear fission and fusion
14	5	Stellar Energy: Synthesis of elements - hydrogen burning, carbon burning, the e, x, r, p and x processes. Nuclear Reactors: fast breeder reactors, particle accelerators, linear accelerators, cyclotron, and synchrotron
15	5	Radio Analytical Methods: Isotope dilution analysis, Radiometric Titrations, Radioimmunoassay, Neutron activation analysis

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALBERT NIKSON S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>1</b>
Subject	<b>20EPCH14 : BIO-INORGANIC AND SUPRAMOLECULAR CHEMISTRY</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Metal Storage Transport and Biomineralization
2	1	Ferritin, Transferrin, and siderophoresferrichrome, ferrioxamines and enterobactin
3	1	biochemistry of calcium – calcium of homeostasis – binding sites of calcium in proteins – the role of calmodulin – calcium in blood clotting.
4	2	Metalloenzymes – zinc enzymes – carboxypeptidase and carbonic anhydrase
5	2	Iron enzymes – catalase, peroxidase and cytochrome P-450
6	2	Copper enzymes – superoxide dismutase. Molybdenum oxatransferase enzymes – xanthine oxidase - Coenzyme vitamin B12
7	3	Metal-nucleic acid interactions - metal ions and metal complex interactions - metal complexes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	nucleic acids – binding of cisplatin with DNA
9	3	Metals in medicine - metal deficiency and disease - toxic effects of metals - metals used for diagnosis
10	4	Concepts - Nature of Supramolecular interactions, preorganization and complementarity design principles - Molecular recognition: - Spherical and tetrahedral recognition– Recognition of ammonium ions, neutral molecules
11	4	Molecular receptors – Cation binding hosts-Crown ethers, Cryptands, Calixarenes - design principles - Anion receptors – the shape of anions - Recognition of anionic substrate - Co-receptor molecules
12	4	dinuclear and polynuclear metal ion cryptates - ditopic, heterotopic co-receptors - multiple recognition in metalloreceptors.
13	5	Supramolecular devices: Light Conversion and Energy Transfer Devices, Photoinduced Electron Transfer Devices
14	5	Molecular wires, switchable molecular wires, photoswitching devices
15	5	Supramolecular racks, ladders, grids - Supramolecular chemistry in biology

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	2
Subject	19PCH22 : INORGANIC CHEMISTRY-II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Metal-Ligand Bonding: Limitation of crystal field theory, Molecular Orbital Theory,
2	1	Evidence of metal- ligand covalency, TASSO-MO concepts of Oh and Td complexes,
3	1	MO energy level diagrams of sigma- and pi-bonding in Oh complexes, nature of metal-ligand pi-bonds, evidence for pi-back bonding,
4	1	spectrochemical series, and pi-acceptor series. Jahn-Teller Effect and its consequences.
5	1	1.2 The Chemistry of Lanthanides and Actinides: oxidation state, spectral & magnetic characteristics, coordination numbers, stereochemistry,
6	1	lanthanide contraction-causes, consequences - comparison between 3d and 4f block elements -
7	1	comparative account of lanthanides and actinides - nuclear and non-nuclear applications.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Nanotechnology – Introduction – preparatory methods
9	3	chemicals methods, thermolysis, pulsed laser method – Microwave Synthesis
10	3	-Basic concepts of Nanoscience and technology – Quantum wire – Quantum well
11	4	4.1 Bioinorganic Chemistry: Metal Ions in Biological Systems: Essential and trace metals. Na <sup>+</sup> /K <sup>+</sup> Pump, Role of metals ions in biological processes,
12	4	Transport and Storage of Dioxygen: Heme proteins and oxygen uptake, structure and function of hemoglobin, myoglobin,
13	4	hemocyanins, and hemerythrin,
14	4	4.2 Electron Transfer in Biology: Structure and function of metalloproteins in electron transport processes –
15	4	cytochromes and iron-sulfur proteins – Nitrogenase: Biological nitrogen fixation, molybdenum nitrogenase.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	19PCH31 : ORGANIC CHEMISTRY-III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit – I PERICYCLIC REACTIONS Molecular orbital symmetry, Frontier orbitals of ethylene, 1,3 – butadiene, 1,3,5 – hexatriene and allyl system.
2	1	Classification. Electrocyclic reactions – cycloadditions and cheletropic reactions. Sigmatropic rearrangements – Woodward – Hoffmann rules and correlation diagrams.
3	1	Claisen and Cope rearrangements. Fluxional tautomerism, Ene reaction, Applications of concerted reactions in organic synthesis.
4	2	Unit – II ORGANIC PHOTOCHEMISTRY Introduction to organic photochemistry, Photochemical excitations, Fate of the excited molecules, Jablonski diagram,
5	2	Study of photochemical reactions of alkenes, dienes, aromatic, carbonyl and conjugated systems,
6	2	Norrish Type-I and II reactions, Paterno- Buchi reaction, Di-pi-methane rearrangement, Applications of photochemical reactions in Organic Synthesis.
7	3	Aromaticity of benzenoid, heterocyclic and non benzenoid compounds,



Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Huckel's rule – Aromatic systems with pi electron numbers other than six – non aromatic ( cyclooctatetraene etc.) and antiaromatic system (cyclobutadiene etc.) –
9	3	system with more than 10 pi electrons – Annulenes up to C18 (synthesis of all these compounds is not expected)
10	4	Unit – IV REAGENTS IN ORGANIC SYNTHESIS Applications of the following reagents in organic synthesis:AIBN, 9-BBN, DCC, CAN,
11	4	PCC, Crown ethers, LDA, Lindlar's catalyst, Gilman's reagent, 1,3-Dithiane-Umpolung, Trimethylsilyl iodide, Phase transfer catalysts, Wilkinson's catalyst, Baker yeast,
12	4	Organo transition metal reagents. Applications of reagents containing silicon, Phosphorus, Sulphur, selenium, palladium, rhodium, and titanium reagents in organic synthesis.
13	5	Unit - V SELECTIVE NAME REACTIONS AND THEIR APPLICATIONS IN ORGANIC SYNTHESIS Michael addition, Mannich reaction, Sharpless asymmetric epoxidation, Hofmann – Löffler – Freytag reaction,
14	5	Knoevenagel reaction, Peterson Olefination reaction, Skraup reaction, Barton reaction, Reformatsky reaction, Von Richter reaction,
15	5	Prevost reaction and Woodward modification of the Prevost reaction.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	AMALORPAVADOSS A	Academic Year	2022-2023
Department	Chemistry	Semester	4
Subject	19PCH41 : ORGANIC CHEMISTRY - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	PLANNING ORGANIC SYNTHESIS AND RETROSYNTHETIC ANALYSIS An introduction to retrosynthesis – Synthons, Synthetic equivalent, Target molecule, Functional group interconversion
2	3	– Disconnection approach – One group disconnection – Disconnection of simple alcohols, olefins and ketones – Logical and illogical disconnections,
3	3	Two group disconnection – 1,2 – 1,3 – 1,4 – 1,5 and 1,6 – dioxygenated skeletons and dicarbonyls. Retro Diels – Alder reactions. (Synthesis of the following target molecules: cyclohex-3-ene carbaldehyde,
4	3	1-phenylpentan-3-one, 1-bromo-3-methylbut-2-ene, (E)-3-(4-nitrophenyl)acrylaldehyde, Pentane-2,4- dione,
5	3	ethyl-2-oxocyclopentane carboxylate, nonane-3,7- dione, 2-amino-3-methyl butanoic acid, 2,3-dimethylbutane-2,3-diol)
6	1	UNIT – I: ALKALOIDS AND BIOORGANIC CHEMISTRY Total synthesis of quinine, morphine, reserpine, cocaine, hygrine, and reticulene
7	1	Total synthesis of quinine, morphine, reserpine, cocaine, hygrine, and reticulene

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Total synthesis of quinine, morphine, reserpine, cocaine, hygrine, and reticulene
9	1	Nucleic acids: Types of nucleic acids – DNA & RNA polynucleotide chain. Components – Structure and role of ( genetic code) DNA and RNA (Nucleotides only).
10	1	Nucleic acids: Types of nucleic acids – DNA & RNA polynucleotide chain. Components – Structure and role of ( genetic code) DNA and RNA (Nucleotides only).
11	5	UNIT- V: HETEROCYCLES, VITAMINS, AND STEROIDS Imidazole, Oxazole, Thiazole, Flavones, isoflavones, anthocyanins, pyrimidines ( cytosine and L uracil only) and purines
12	5	Imidazole, Oxazole, Thiazole, Flavones, isoflavones, anthocyanins, pyrimidines ( cytosine and L uracil only) and purines
13	5	( adenine, Guanine only). Synthesis of parent and simple alkyl or aryl substituted derivatives are expected. S
14	5	ynthesis of vitamin A1 ( Reformatsky and Wittig reaction methods only). Conversion of cholesterol to progesterone, estrone, and testosterone.
15	5	ynthesis of vitamin A1 ( Reformatsky and Wittig reaction methods only). Conversion of cholesterol to progesterone, estrone, and testosterone.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY SANDOSH T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>PCHP306 : PHYSICAL CHEMISTRY PRACTICAL - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Physical chemistry Practical- Experiment 1
2	2	Physical chemistry Practical- Experiment 2
3	2	Physical chemistry Practical- Experiment 3
4	3	Physical chemistry Practical- Experiment 4
5	3	Physical chemistry Practical- Experiment 5
6	3	Physical chemistry Practical- Experiment 6
7	4	Physical chemistry Practical- Experiment 7

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Physical chemistry Practical- Experiment 8
9	4	Physical chemistry Practical- Experiment 9
10	4	Physical chemistry Practical- Experiment 10
11	5	Physical chemistry Practical- Experiment 11
12	5	Physical chemistry Practical- Experiment 12
13	5	Physical chemistry Practical- Experiment 13
14	5	Physical chemistry Practical- Experiment 14
15	5	Physical chemistry Practical- Model Practical Examination

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY SANDOSH T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>JPCH1016 : PROJECT</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Literature Survey
2	1	Literature Survey
3	1	Literature Survey
4	1	Literature Survey
5	1	Scheme Preparation
6	1	Scheme Preparation
9	2	Synthesis and Simulation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	2	Synthesis and Simulation
11	2	Synthesis and Simulation
12	3	Thesis preparation
13	3	Thesis preparation
14	3	Thesis preparation
15	3	Model Viva Voce
7	2	Synthesis and Simulation
8	2	Synthesis and Simulation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY SANDOSH T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>PCH33A : STATISTICAL THERMODYNAMICS AND ITS APPLICATIONS</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Thermodynamics-terminologies.
2	4	Partial molar properties – Partial molar free energy (Chemical Potential).
3	4	Partial molar volume and Partial molar heat content – Their significance and determination of these quantities.
4	4	Variation of chemical potential with temperature and pressure.
5	4	Thermodynamics of real gases – gas mixture – definition of fugacity.
6	4	determination of fugacity – a variation of fugacity with temperature and pressure.
7	5	Thermodynamics of ideal and nonideal binary solutions – dilute solutions.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Excess function for non-ideal solutions and their determination – the concept of activity and activity coefficients
9	5	determination of standard free energies – choice of standard states.
10	5	determination of activity and activity coefficients for electrolytes.
11	5	EMF vapour pressure measurements.
12	5	Gibbs Duhem equation and solubility product method. Thermodynamic equilibrium – Three-component system
13	3	Statistical mechanics of ensemble – thermodynamic functions of the ensemble- canonical ensemble.
14	3	properties of the canonical ensemble- grand canonical ensemble- microcanonical ensemble.
15	5	REVISIONS.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANAND G	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	19PCH32 : INORGANIC CHEMISTRY -III	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Organometallic Chemistry: Carbon s donors: Alkyls and aryls - metalation reactions - Bonding in carbonyls and nitrosyls – Metal carbene (Fisher & Schrock) and carbyne complexes
2	1	Carbon p donors: olefins, acetylene and p-allyl systems - cyclic p donors - synthesis structure and bonding in ferrocene
3	1	Organometallic Reaction: Association, substitution, addition and elimination, ligand protonation, electrophilic and nucleophilic attack on ligands. carbonylation and decarbonylation, oxidative addition, reductive elimination, and fluxionality.
4	2	Organometallic Chemistry - Catalysis: Hydrogenation of olefins (Wilkinson's catalyst), hydroformylation of olefins using cobalt catalyst (oxo process), oxidation of olefins to aldehydes (Wacker process).
5	2	Polymerization of Olefins: Polymerization (Zeigler – Natta Catalyst); cyclo oligomerization of acetylene using nickel catalyst (Repee's Catalyst);
6	2	polymer- bound catalysts
7	3	Monsanto acetic acid synthesis, water gas shift reaction, Fischer Tropsch synthesis

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Olefin metathesis ROM & RCM
9	3	Parallels between main group and binary carbonyl complexes – the isolable analogy – isolable analogy $\text{CH}_4$ , $\text{CH}_3$ , $\text{CH}_2$ , $\text{CH}$ , $\text{C}$ , $\text{CH}_4^+$ $\text{CH}_3^+$ , $\text{CH}_2^+$ , $\text{CH}^+$ , $\text{CH}_3^-$ , $\text{CH}_2^-$ , $\text{CH}^-$ fragments with metallic carbonyls – an extension of the isolobal analogy
10	4	EPR Spectra: Hyperfine splitting: hyperfine splitting in isotropic systems involving one nucleus and more than one nucleus, hyperfine splitting caused by quadrupole nuclei. g value and the factors affecting g values, anisotropy in g-value, factors causing.
11	4	EPR spectra of systems with more than one unpaired electrons: zero-field splitting, causes of ZFS, McConnell's equation, Krammer's theorem. ESR of transition metal complexes of copper, manganese and Vanadyl ions. ESR spectrum of simple organic free ra...
12	4	Photoelectron spectroscopy (UV and X-ray) – photoelectron spectra of $\text{O}_2$ and $\text{N}_2$ molecules – Koopman's theorem, chemical shift, and correlation with electronic charges.
13	5	Inorganic Spectroscopy: $^{31}\text{P}$ , $^{19}\text{F}$ NMR spectrum of $\text{HPF}_2$ , $\text{P}_4\text{S}_3$ , $\text{TiF}_4$ , $\text{BrF}_5$ , $\text{SiF}_6^{2-}$ , $\text{NF}_3$ , $\text{ClO}_4^-$ , $\text{P}_3\text{N}_3\text{Cl}_4\text{F}_2$ , $\text{ClF}_3$ Phosphorous and Hypophosphorous acid systems - shift reagents.
14	5	NQR - Principles and applications of NQR - Mossbauer spectra – Principle, chemical shift, Doppler shift - Mossbauer spectra of Fe and Sn systems.
15	5	Inorganic Spectroscopy: Applications to inorganic systems of the following: ultraviolet, visible, infra-red and Raman spectra of metal complexes, organometallic and simple inorganic compounds.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANAND G	Academic Year	2022-2023
Department	Chemistry	Semester	4
Subject	19PCH42 : INORGANIC CHEMISTRY - IV	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Energy profile of a reaction, inert and labile complexes, substitution reactions of octahedral complexes
2	1	Acid hydrolysis, base hydrolysis, conjugate base mechanism, anation reactions.
3	1	Synthesis of Platinum & Cobalt complexes by substitution reactions
4	2	Substitution reactions in square planar complexes, mechanism of Substitution reactions- Trans effect
5	2	Theories of Trans effect. Reactivity of platinum complexes, influences of entering, leaving and other groups and a central metal ion.
6	2	Inorganic Photochemistry: photo-substitution, photo redox
7	2	Photo isomerization process, application of metal complexes in solar energy conversion.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Electron transfer reactions:
9	3	Outer and Inner sphere processes
10	3	Atom transfer reaction
11	3	Formation and rearrangement of precursor complexes, the nature of the binding ligand,
12	3	Formation and rearrangement of precursor complexes, the nature of the binding ligand,
13	3	Successor complexes, Marcus theory
14	3	Successor complexes, Marcus theory
15	3	Complementary, Non-complementary and two-electron transfer reactions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PAUL AROKIADOSS</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>PCHP304T : ORGANIC CHEMISTRY PRACTICAL - II</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Preparation of organic compounds involving two stages- compound 1.
2	1	Spectral interpretation of organic molecules.
3	1	Preparation of organic compounds involving two stages- compound 2.
4	1	Spectral interpretation of organic molecules.
5	1	Preparation of organic compounds involving two stages- compound 3.
6	1	Spectral interpretation of organic molecules.
7	1	Preparation of organic compounds involving two stages- compound 4.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Spectral interpretation of organic molecules.
9	1	Preparation of organic compounds involving two stages- compound 5.
10	1	Spectral interpretation of organic molecules.
11	2	Estimation of Phenol
12	2	Estimation of Aniline
13	2	Estimation of Aniline
14	2	Estimation of Glucose
15	2	Estimation of Glucose

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>4</b>
Subject	<b>JPCH1017 : SEMINAR&amp;PAPER PRESENTATION</b>	Course	<b>Chemistry</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic introduction about seminar and paper presentation paper
2	1	different search engine to find out the topic
3	1	Discussion about journal publishers
4	1	How to collect the article by using different sources
5	2	How to use keyword and authors search
6	2	Discussion about SCI-HUB to find out the article
7	2	Topic given to the students to collect the articles



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Demonstration how to make PPT for the seminar presentation
9	2	Chem Draw software technique for the students
10	2	Discussion with the collected article before going to give presentation
11	3	Discussion about thesis writing and paper publishing
12	3	How to see the plagiarism before publishing the article
13	3	Correction of PPT
14	3	Model presentation by the students
15	3	Final presentation and correction by the guide

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>DAVID AMALRAJ S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Chemistry</b>	Semester	<b>3</b>
Subject	<b>19EPCH34 : PHYSICAL METHODS IN ORGANIC CHEMISTRY</b>	Course	<b>Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Electronic transitions – Beer-Lambert's law
2	1	The effect of solvent on electronic transitions, ultraviolet bands for carbonyl compounds,
3	1	Ultraviolet bands for unsaturated carbonyl compounds, dienes, conjugated polyenes
4	1	Woodward-Fieser rules for conjugated dienes and carbonyl compounds
5	1	ultraviolet spectra of aromatic and heterocyclic compounds
6	1	Octant rule, Applications of ORD and CD to stereochemical assignments.
7	3	Introduction, ion production – EI, CI, FD and FAB

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Factors affecting fragmentation, ion analysis, ion abundance
9	3	Mass spectral fragmentation of organic compounds, of common functional groups, molecular ion peak
10	4	Basic principles. Macroscopic magnetization. General introduction to NMR techniques – CW and FT NMR techniques, magnetic anisotropy
11	4	<sup>1</sup> H NMR spectral parameters – chemical shift, coupling constant,
12	4	Factors affecting chemical shift
13	4	Karplus equation. Proton NMR spectra of simple organic molecules
15	4	Identification of Homotopic, diastereotopic and enantiotopic protons.
14	4	Simplification of complex spectra. Nuclear Overhauser effect (NOE).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	PCHP304T : ORGANIC CHEMISTRY PRACTICAL - II	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Quantitative Organic analysis.
2	1	Estimation of Phenol
3	1	Introduction to spectral interpretation of some organic compounds
4	1	Preparation of organic compounds involving two stages
5	1	Estimation of Aniline
6	1	preparation of m-nitro benzoic acid from methyl benzote
7	1	spectral interpretation of m-nitro benzoic acid and methyl benzote

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Preparation of organic compounds involving two stages
9	1	Estimation of Glucose
10	1	preparation of m-nitro benzene from aniline
11	1	spectral interpretation of m-nitro benzene and aniline
12	1	spectral interpretation of some organic compounds
13	1	Preparation of organic compounds involving two stages
14	1	Revision
15	1	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ADAIKALARAJ C	Academic Year	2022-2023
Department	Chemistry	Semester	3
Subject	19EPCH34 : PHYSICAL METHODS IN ORGANIC CHEMISTRY	Course	Chemistry

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Infra-red spectroscopy-Instrumentation and sample handling. ,
2	2	Vibrational frequencies of different functional groups
3	2	Inductive effect, mesomeric effect, field effect and steric effects on vibrational frequencies
4	2	Effect of hydrogen bonding and solvent on vibrational frequencies
5	2	Infra-red vibrational frequencies of gases, solids and polymeric materials.
6	2	overtones, combination bands, and Fermi resonance. FT – IR.
7	3	Mass spectroscopy : common functional groups, molecular ion peak, base peak, and isotope peaks, metastable peak.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	McLafferty rearrangement. Nitrogen rule
9	3	High-resolution mass spectrometry
10	3	Examples of mass spectral fragmentation of organic compounds with respect to their structure determination
11	5	<sup>13</sup> C NMR – proton decoupled and off-resonance spectra.
12	5	Factors affecting <sup>13</sup> C chemical shift – electronegativity.
13	5	<sup>13</sup> C NMR spectra of simple organic molecules. DEPT spectra
14	5	2D NMR techniques <sup>1</sup> H COSY, <sup>13</sup> C COSY spectra.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>PCS704S : UNIX NETWORK PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INTRODUCTION & FILE SYSTEM: Overview of UNIX OS - File I/O - File Descriptors - File sharing
2	1	Files and directories – File types - File access permissions - File systems - Symbolic links - Standard I/O library.
3	1	Streams and file objects - Buffering - System data files and information - Password file - Group file - Login accounting - system identification. Unit test -1
4	2	PROCESSES: Environment of a UNIX process - Process termination -
5	2	Command line arguments - Process control - Process identifiers.
6	2	Process relationships terminal logins - Signals -threads. Unit test - 2
7	3	INTERPROCESS COMMUNICATION: Introduction - Message passing (SVR4)- pipes - FIFO.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Message queues – Synchronization (SVR4) - Mutexes - condition variables
9	3	Read - write locks – file locking - record locking -semaphores - Shared memory (SVR4) Unit test - 3
10	4	SOCKETS: Introduction - types of sockets - transport layer - socket introduction
11	4	TCP sockets - UDP sockets – raw sockets - Socket options.
12	4	I/O multiplexing - Name and address conversions. Unit test - 4
13	5	APPLICATIONS: Debugging techniques - TCP echo client server.
14	5	UDP echo client server - Ping - Trace route .
15	5	Client server applications like file transfer and chat Discuss about previous question papers. Conducting Revision test.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>19PCS808 : WIRELESS COMMUNICATION TECHNOLOGIES</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO PROTOCOLS AND THE TCP/IP SUITE-: The Need for a Protocol Architecture,
2	1	The TCP/IP Protocol Architecture,
3	1	conducting class test
4	2	The TCP/IP Protocol Architecture,
5	2	The OSI Model,
6	2	Inter-networking
7	3	. Wireless Communication Technology

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Seminar
9	3	- Antennas and Propagation-
10	4	Antennas, Propagation Modes,
11	4	Line-of-Sight Transmission,
12	4	Fading in the Mobile Environment - Class test
13	5	CORDLESS SYSTEMS AND WIRELESS LOCAL LOOP: Cordless Systems, Wireless Local Loop
14	5	Cordless Systems, Wireless Local Loop
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHNSON DURAI A.R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>PCS806S : SOFTWARE TESTING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	TYPES OF TESTING- Introduction
2	3	White Box Testing
3	3	Static Testing-Structural Testing
4	3	Black Box Testing-Integration Testing
5	3	Phase of Testing
6	3	Scenario Testing
7	3	Defect Bash

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	System and Acceptance Testing
9	3	Functional System Testing
10	3	Non Functional Testing
11	3	Regression Testing
12	3	Internalization testing-Ad hoc testing.
13	5	Test Management and Automation
14	5	Test planning -Test Process
15	5	Test Reporting-Best Practices.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUN BENEDICT A	Academic Year	2022-2023
Department	Computer Science	Semester	2
Subject	19PCS809 : WEB TECHNOLOGY	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Hardware elements associated with internet Internet Services
2	1	Internet Protocols TCP/IP, UDP, HTTP Other Protocols
3	1	Telnet Gopher Mail and its types FTP Remote access Web Indices Search Engines.
4	2	Tags and Documents Link documents using Anchor Tags
5	2	Images and Pictures Tables
6	2	HTML Forms Frames Framesets.
7	3	Java Script Data types Operators

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Variables Conditional Statements Functions
9	3	Objects Document object Window Object Event Handling.
10	4	Well-formed XML CSS XSL
11	4	Valid XML DTD XSD Introduction to DOM and SAX Parsers.
12	5	Server-Side Scripting basics Server-Side Scripting Languages
13	5	PHP Scripting General Syntactic Characteristics Primitives, operations and expressions
14	5	Control Statement Arrays Functions Pattern Matching Form Handling Files Cookies
15	5	Session Tracking Database access with PHP and MYSQL.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUN BENEDICT A	Academic Year	2022-2023
Department	Computer Science	Semester	2
Subject	19PCSP24 : PRACTICAL -4 : WEB TECHNOLOGY LAB	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Create a HTML table with rows and columns and split them using Rowspan and Colspan.
2	1	Create a web page in the format of front page of a news paper using Text links. Align the text with colors.
3	1	Write a HTML program for new email account registration. Validate the input using Java Script.
4	2	Write an XML document to display your bio-data. Write an XSL style sheet and attach that to the XML document. Validate the document using DTD or XSD.
5	2	Revision CIA Test 1
6	2	Write a server-side PHP program that displays marks, total, grade of a student in tabular format by accepting user inputs for name, number and marks from a HTML form.
7	3	Write a PHP program to access the data stored in a mysql table.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Develop a simple Web page using Html and JavaScript about your college.
9	3	Write a JavaScript Program to prepare a salary slip for an Employee
10	4	Revision CIA Test 2
11	4	Write a JavaScript Program to illustrate the use of String Functions
12	4	Write a JavaScript Program to illustrate the use of Mathematical Functions and Date Functions.
13	5	Java script program to calculate EB Bill
14	5	Find the commission of a sales person
15	5	Revision & Test 3

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21PCS807 : PYTHON PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INTRODUCTION TO PYTHON Features of Python
2	1	Applications of Python
3	1	Installing and Running Python
4	2	BASIC SYNTAX OF PYTHON Python Identifiers
5	2	Comments in Python
6	2	Variables Standard Data types in Python
7	3	STRINGS, LISTS, TUPLES AND DICTIONARY IN PYTHON: Simple Programs in Python

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Operators and its types in Python
9	3	Operator Precedence
10	4	CONTROL STRUCTURES IN PYTHON
11	4	Decision Making Statements Looping Constructs
12	4	Unconditional Control Statements.
13	5	FUNCTION IN PYTHON Defining a Function Calling a Function
14	5	Call by Value and Reference Function Arguments
15	5	Anonymous Functions Return Statement Scope of Variables.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21PCSP23 : PRACTICAL - III:PYTHON PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	A Simple program in python.
2	1	Write a python program to Check Armstrong Number.
3	1	Write a python program to implement conditional branching.
4	1	Find whether the given number is odd or even
5	1	Generate EB bill using conditional branching
6	1	Write a python program to implement loop structure.
7	1	Write a Python program to remove the nth index character from a nonempty string.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Write a Python program to find the second smallest number in a list.
9	1	Write the simple python program to print elements in the list using for loop
10	1	Write a python program using tuples.
11	1	Write a Python program to find the highest 3 values of corresponding keys in a dictionary.
12	1	Write a python program to display the keys and values in the dictionary
13	1	Write a python program to access and print items in the tuples
14	1	Write a Python program to find the factorial of a number using a recursive function.
15	1	Write a program for Simple Calculator

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>EPCS810B : GRID COMPUTING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INTRODUCTION: Grid Computing & Key Issues-Applications-Other Approaches
2	1	Grid Computing Standards-Grid Topology-Components
3	1	Layers-Pragmatic Course of Investigation -Slip Test
4	2	GOAL BENEFITS & STATUS OF TECHNOLOGY: Motivations-History of Computing, Communications and Grid Computing
5	2	Grid Computing Prime Time-Suppliers and Vendors
6	2	Economic Value-Challenges-Revision of the Unit
7	3	Components of Grid Computing Systems & Architecture-Basic Constituent Elements -A Functional view-Grid Portal-Security-Broker-Scheduler-Data Management-Job and Resource Management-Resources.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	A Physical View-Networks-Computation-Storage-Components-Scientific Instruments
9	3	Service View-SOA-SOAP-web Service Standards-WSDL-WSIL-UDDI-.NET-WSRF
10	4	GRID COMPUTING STANDARDS-OGSI- Standardization-Architectural Constructs
11	4	Practical view-OGSA/OGSI Service Elements and Layered Model
12	4	More Detailed View-Setting the Context-Relationship to DOS-Client-Side Programming Patterns.
13	5	STANDARDS SUPPORTING GRID COMPUTING-OGSA: Functionality -Requirements-OGSA Service Taxonomy
14	5	Service Relationships-OGSA Services
15	5	Security Considerations.-Policy Management Interfaces-Security Features in Programming Environments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>PCS703S : ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	INTRODUCTION TO JAVA: Features of Java - Data types – Variables –Operators - Arrays
2	1	Classes – Objects – Constructors - Overloading method - String class – Inheritance
3	1	Overriding Method – Using super - Abstract class - Packages – Access protection.
4	2	Packages - Access protection- Importing packages
5	2	Interfaces – Exception handling –Throw and throws
6	2	Thread – Multithreading-sample code in Thread-Revision
7	3	Java Database-Working with windows using AWT Classes – AWT Controls



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Layout Managers and menus- Swing- Introduction to Swing- Swing Architecture- Examples for Swing
9	3	JDBC/ODBC driver-MSACCESS connection-A complete example
10	4	Sockets - Inet Address - IP Address - Port number - Client/Server computing
11	4	TCP/IP - TCP client – server handling multiple clients
12	4	UDP-UDP Server-UDP Client-Multithreaded clients.
13	5	Servlet architecture-HTML support - Servlet Installation - Revision
14	5	Servlet API Distributed computing – RMI architecture - parameter in RMI
15	5	RMI Client-side callbacks- Installing RMI systems - serializing remote objects.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>PCSP101T : PRACTICAL -1 : ADVANCED JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Java Codes
2	1	java program to find area perimeter using Buffered Reader class- Logic codes
3	1	java program to implement Multithreading concepts
4	2	java program to implement an application for File Stream using Sequential file
5	2	program to print the port, protocol, host, and file name from the given URL-Logic Codes
6	2	program to implement Client and Server application using TCP/IP.
7	3	program to display the IP Address of a given Host Machine.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	program for Remote Command Execution using TCP/IP.
9	3	program for Storing and Retrieving Email Addresses using JDBC
10	4	program to print student details using JDBC.
11	4	I-CIA Exam
12	4	Working with Frames and Various Controls
13	5	Incorporating Graphics Font animation using Applets Interface
14	5	II-CIA Exam
15	5	program to implement addition operation using RMI.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>19PCSP24 : PRACTICAL -4 : WEB TECHNOLOGY LAB</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Search Engines, FTP, Remove Access
2	1	Telnet,HTML Forms, Images and Pictures
4	2	Data Types,Operators,,Window Obiect
5	2	Event Handling,CSS,XSL,PHP Scripting
6	2	Arrays,Functions
7	2	Files
8	3	Control Statement,Loops

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Cookies
10	3	Session Tracking
3	2	Sample programs using HTML
11	4	Exercise Problems 1,2,3,4 test
12	4	Java Script,PHP Script Revision
13	4	Window Object, Event Handling Revision
14	5	Data base Access with PHP and MYSQL
15	5	Internet Services

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>PCS806S : SOFTWARE TESTING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Software Testing-Introduction, Objectives of Software Testing,
2	1	Bugs, taxonomy of Bugs, Consequences of Bugs
3	1	Complete testing is Possible? Benefits of Software Testing
4	2	SDLC models, Mohamed of Software Projects,
5	2	Quality Assurance, Control Testing, Verification, Control Structure Testing
6	2	SDLC Models-water fall, Evolutionary Model, Spiral Model, RAD , V Model
7	3	White box ,Static , Structural Testing, Black box Testing- introduction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Integration,Scenario,Defect Bash Testing, Acceptance Testing g
9	3	Functional and non functional testing
10	4	Usability and Accessibility Testing,Approach,Quality Factors
11	4	Tools for usability,Test roles of Usability,Isdues
12	4	Comparison between testing and development functions,Role of E o system
14	5	Effects of Globalization,Textog Service Organization,Test management and Authorization
15	5	Test Planning,Test process,Test Reporting,Best Practices
13	5	Various Testing Stratrgies

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>EPCS705Q : COMPUTER SYSTEM ARCHITECTURE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to advanced computer architecture Introduction to parallel processing Concept of shared memory Concept of distributed memory
2	1	Introduction to multiprocessor system NUMA UMA COMA Multicomputer
3	1	SIMD super computer Vector processor PRAM model
4	2	RISC architecture CISC architecture
5	2	Memory hierarchy Hierarchical memory technology inclusion coherence
6	2	virtual memory technology cache memory organization
7	3	linear pipeline processor types of linear pipelines



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Non-Linear Pipeline processor
9	3	instruction pipeline design arithmetic pipeline design
10	4	multiprocessor system interconnects
11	4	vector processing principles class test
12	4	SIMD computer organizations SIMD implementation models
13	5	latency introduction latency hiding techniques shared virtual memory
14	5	principles of multithreading multithreading issues and solutions
15	5	multiple context processor revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	MIRANDA LAKSHMI T	Academic Year	2022-2023
Department	Computer Science	Semester	2
Subject	21PCSP23 : PRACTICAL - III:PYTHON PROGRAMMING	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	A Simple program in python.
2	2	Write a python program to Check Armstrong Number.
3	3	Write a python program to implement conditional branching.
4	4	Find whether the given number is odd or even
5	5	Generate EB bill using conditional branching
6	6	Write a python program to implement loop structure.
7	7	Write a Python program to remove the rth index character from a nonempty string.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Write a Python program to find the second smallest number in a list.
9	9	Write the simple python program to print elements in the list using for loop
10	10	Write a python program using tuples.
11	11	Write a Python program to find the highest 3 values of corresponding keys in a dictionary.
12	12	Write a python program to display the keys and values in the dictionary
13	13	Write a python program to access and print items in the tuples
14	14	Write a Python program to find the factorial of a number using a recursive function.
15	15	Write a program for Simple Calculator

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY SHAKKINA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>19PCS808 : WIRELESS COMMUNICATION TECHNOLOGIES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Introduction to Satellite Communications
2	3	Satellite Parameters and Configurations
3	3	Capacity Allocation-Frequency Division
4	3	Capacity Allocation-Time Division Cellular
5	3	Class test-1 Capacity Allocation-FD,TD
6	3	Introduction to Wireless Networks
7	3	Principles of Cellular Networks

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	First-Generation Analog
9	3	Second Generation - TDMA, CDMA
10	3	Class test-2 Second Generation - TDMA, CDMA
11	3	Third-Generation Systems
12	4	Overview of Wireless LAN Technology
13	4	Infrared LANs, Spread Spectrum LANs
14	4	Narrowband Microwave LANs
15	4	Class test-3 Infrared LANs, Spread Spectrum LANs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>19PCS808 : WIRELESS COMMUNICATION TECHNOLOGIES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	signal encoding criteria, digital data - analog signals
2	2	Analog data - Analog Signals
3	2	Analog data - digital signals
4	2	concept of spread spectrum
5	2	signal encoding class test
6	2	frequency hopping spread spectrum
7	2	direct sequence spread spectrum

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	code division multiple access
9	2	generation of spreading sequence
10	5	IEEE 802 Protocol Architecture
11	5	IEEE 802.11 Architecture and services
12	5	IEEE 802.11 Medium Access control
13	5	Introduction to Wifi
14	5	Introduction to Bluetooth Technologies
15	5	revision and class test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21PCSP23 : PRACTICAL - III:PYTHON PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	A Simple program in python.
2	1	Write a python program to Check Armstrong Number
3	1	Write a python program to implement conditional branching.
4	1	Find whether the given number is odd or even
5	1	Generate EB bill using conditional branching
6	1	Write a python program to implement loop structure.
7	1	Write a Python program to remove the nth index character from a nonempty string.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Write a Python program to find the second smallest number in a list
9	1	Write the simple python program to print elements in the list using for loop
10	1	Write a python program using tuples.
11	1	Write a Python program to find the highest 3 values of corresponding keys in a dictionary
12	1	Write a python program to display the keys and values in the dictionary
13	1	Write a python program to access and print items in the tuples
14	1	Write a Python program to find the factorial of a number using a recursive function.
15	1	Write a program for Simple Calculator

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>JPCS1016 : MAIN PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Create a Simple ASP.NET Web Forms
2	1	Create a Simple ASP.NET Web Forms Using -Label-TextBox-Button-DropDownList
3	1	Create a Simple ASP.NET Web Forms Using-ListBox
4	2	Create a Simple ASP.NET Web Forms using DataGrid
5	2	Create a Simple ASP.NET Web Forms using DataList
6	2	Create a Simple ASP.NET Web Forms using Calendar
7	3	Create a Simple ASP.NET Web Forms using Literal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating User Registration Form in ASP.NET
9	3	Events Handling in ASP.NET Web Forms
10	4	Create a Simple ASP.NET Web Forms using Navigation Control
11	4	Creating a Login Form using Login Control
12	4	Create a simple webpage using ASP.NET controls with Linking Webpages
13	5	Create a simple webpage using PHP
14	5	Create a simple webpage Using ADO.NET
15	5	Create a Simple Website in ASP.NET

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>JPCS1016 : MAIN PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Project topic explained
2	1	Project Topic discussed
3	1	Confirmation of project topic
4	2	Designing of modules
5	2	Completed documentation upto 2 chapters
6	2	1st review upto 50% of project
7	3	Designing project modules upto 75%

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Complete documentation upto 4 chapters
9	3	II nd review completed
10	4	Testing of whole project
11	4	Documentation corrected
12	4	Completion of project
13	5	100? project completion
14	5	100? documentation is completed
15	5	Final review

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20PCS41 : DATA SCIENCE AND BIG DATA ANALYTICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Data science process – data science project roles - stages in data science project – exploring data - build a model - using summary statistics to spot problems
2	1	invalid information - the summary command - typical problems revealed by data summaries - missing values - missing a few values -
3	1	invalid values and outliers - examples of invalid values - examples of outliers - outliers - decision on missing values and outliers - data range
4	2	Getting the Hang of R - Running the R Program - Finding Your Way with R - Command Packages - Some Simple Math
5	2	Reading and Getting Data into R - Viewing Named Objects - Types of Data Items - The Structure of Data Items -
6	2	Working with History Commands - Saving Your Work in R - reading data from files
7	3	Manipulating Objects - Manipulating Vectors - Manipulating Matrix and Data Frames - Manipulating Lists - Viewing Objects within Objects



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Constructing Data Objects - Forms of Data Objects: Testing and Converting - Convert a Matrix to a Data Frame -
9	3	Convert a Data Frame into a Matrix - Convert a Data Frame into a List - Convert a Matrix into a List
10	4	Challenges of Conventional Systems – Structured vs Unstructured Data - Five Vs of Big Data - Big data analytic processes - Ingesting data into the system
11	4	Persisting the data in storage - Computing and Analyzing data – batch processing and stream processing - Visualizing the results
12	4	Big data tools – APACHE FLUME – APACHE SQOOP- Introduction to NOSQL and its types
13	5	Hadoop – Components of Hadoop- Hadoop Distributed File System (HDFS) – HDFS architecture – Read and Write operations in HDFS
14	5	MAP Reduce - Understanding the Map Reduce architecture - Executing the Map phase - Shuffling and sorting - Reducing phase execution - Introduction to data analysis with spark.
15	5	REVISION (SEMESTER QUESTIONS)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHNSON DURAI A.R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>PCS911 : DATA MINING AND WAREHOUSING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Data mining –Introduction-classification of data mining system-Data mining Vs Data Base
2	1	Application of data mining-Data mining functionalities-Integration of data mining system with the data warehouse system.
3	2	Knowledge Discovery Process-Data cleaning: missing values-noisy data-data cleaning as a process
4	2	Data Integration and Transformation-Data Reduction-Types of OLAP servers: ROLAP Vs MOLAP Vs HOLAP
5	2	Decision trees- Neural network- Genetics algorithms.
6	3	DATA WAREHOUSE ARCHITECTURE: Steps for the design and construction of data warehouses-A three tier data warehouse architecture
7	3	Data warehouse back-End Tools and utilities-metadata repository-From data warehousing to data mining

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	From data warehousing to data mining-From online analytical processing to online analytical mining
9	3	Data warehouse implementation-Efficient computation of data cubes.
10	4	CLASSIFICATION AND PREDICTION: Bayesian classification- Baye's theorem
11	4	Rule based classification: Using IF-THEN rules for classification-Rule Extraction from a decision tree-Prediction
12	4	Cluster Analysis-Types of data in cluster analysis.
13	5	PLANNING: Data warehouse scoping and planning
14	5	Testing and implementation of data warehouse
15	5	Advantages of Data warehousing –Disadvantages of data warehousing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUN BENEDICT A	Academic Year	2022-2023
Department	Computer Science	Semester	3
Subject	PCS912A : BASICS OF MACHINE LEARNING	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Machine Learning Importance of Machine Learning in Research
2	1	Applications of Machine Learning Categories of Machine Learning Techniques Trends in Machine Learning.
3	2	Introduction to Supervised Techniques Algorithms for Supervised Learning
4	2	k-Nearest Neighbors Decision Trees
5	2	Naive Bayes- Logistic Regression Support Vector Machines.
6	3	Introduction to Unsupervised Techniques Algorithms for Unsupervised Learning
7	3	K-Means Clustering Algorithms Hierarchical Clustering Algorithms

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Difference between Supervised and Unsupervised Algorithms.
9	4	Multilayer Perceptron The Perceptron Training a Perceptron
10	4	Learning Boolean Functions MLP as a Universal Approximator Backpropagation Algorithm
11	4	Nonlinear Regression Two-Class Discrimination Multiclass Discrimination Multiple Hidden Layers.
12	5	Guidelines for Machine Learning Experiments Cross-Validation and Resampling Methods
13	5	Measuring Classifier Performance Interval Estimation Hypothesis Testing
14	5	Assessing a Classification Algorithm's Performance
15	5	Comparing Multiple Algorithms: Analysis of Variance.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>PCSP35A : MACHINE LEARNING USING PYTHON</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BASIC PROGRAMS Factorial of a given number
2	1	Fibonacci series
3	1	Implement Decision Trees Algorithm
4	2	Implement Naive Bayes Algorithm
5	2	Implement Logistic Regression Algorithm
6	2	Implement Support Vector Machines Algorithm
7	3	Implement K-Means Algorithm

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Implement Hierarchical Clustering Algorithm
9	3	Implement Neural Network Algorithms
10	4	Implement Cross-Validation and Resampling Methods
11	4	Implement Classification Algorithms
12	4	Implement k-Nearest Neighbors Algorithm
13	5	Numbers into words
14	5	Reversing the numbers
15	5	Revision of all programs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>JPCS1016 : MAIN PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Project
2	1	Selecting the appropriate domain and project topic
3	1	Choosing the appropriate front end and backend for their project
4	1	Writing of abstract
5	1	Designing the project
6	1	Designing the project
7	1	Designing the project



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Reviewing the project
9	1	Documentation Preparation
10	1	Documentation Preparation
11	1	Documentation Preparation
12	1	Documentation Preparation
13	1	Reviewing the project
14	1	Execution of the complete project
15	1	Execution of the complete project and preparing the final draft of the documentation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>PCS913P : CLOUD COMPUTING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Cloud Computing-Roots of Cloud Computing - Layers and Types of Cloud - Features of a Cloud - Infrastructure Management- Cloud Services - Infrastructure as a Service Providers -Platform as a Service Providers-Challenges and Risks
2	1	Migrating into a Cloud: Introduction - Broad Approaches - Seven Step Model -Enriching the Integration as a Service' Paradigm for the Cloud Era
3	1	Integration Methodologies - SaaS-Summary of the unit.
4	2	Infrastructure as a Service-Virtual Machines - Layered Architecture - Life Cycle- VM Provisioning Process - Provisioning and Migration Services
5	2	Management of Virtual Machines Infrastructure - Scheduling Techniques - Cluster as a Service
6	2	RVWS Design - Logical Design - Cloud Storage – Data Security in Cloud Storage - Technologies
7	3	Platform and Software as a Service: Integration of Public and Private Cloud - Techniques and Tools - Framework Architecture –Resource Provisioning Services - Hybrid Cloud

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cloud Based Solutions for Business Applications - Dynamic ICT Services - Importance of Quality and Security in Clouds - Dynamic Data Center - Case Studies
9	3	Workflow Engine in the Cloud - Architecture - Utilization - Scientific Applications for Cloud – Issues - Classification - SAGA - Map Reduce Implementation.
10	4	Monitoring and Management: An Architecture for Federated Cloud Computing - Use Case - Principles - Model - Security Considerations
11	4	SLA Management - Traditional Approaches to SLO - Types of SLA - Life Cycle of SLA - Automated Policy
12	4	Performance Prediction of HPC - Grid and Cloud - HPC Performance Related Issues.
13	5	Applications: Best Practices in Architecting Cloud Applications in the AWS Cloud
14	5	Massively Multilayer Online Game Hosting on Cloud Resources
15	5	Building Content Delivery Networks using Clouds – Resource cloud Mashups

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19JPC306 : MINI PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creating a page layout in Asp.net Using C#:
2	1	Creating a Web Application for The Page_Load event in Asp.net using C#:
3	1	To create a very simple registration form in ASP.NET Web forms.
4	2	To create a very simple FileUpload control n ASP.NET Web forms.
5	2	Create a simple applications using SQL Server n ASP.NET Web forms.
6	2	Create a applications using Access data with the SqlDataReader
7	3	To Create a Applications in Asp.net using Hyperlink, Linkbutton and Fileupload controls from toolbox.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	To Create a Applications in Asp.net Using Validation controls , master page and content page
9	3	Program to create with ADO.net and Stored procedure in asp.net.
10	4	Using CSS creating web sites
11	4	To Develop a simple application using php a) Enter data into database b) Retrieve and present data from database
12	4	Design a web page using following form controls in PHP a. Text box, b. Radio button, c. Check box, d. Buttons
13	5	To create PDF document buy using graphics concept in PHP
14	5	Develop a simple application to Update, Delete table data from database in PHP
15	5	Create a web application that lists all cookies stored in the browser on clicking “list Cookies ”button .Addcookies if necessary-How to Make a Project Document

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20PCSP46 : PRACTICAL - VI : ANDROID APPLICATION</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creating the Hello android application-Basic controls in android Applications
2	1	Creating the Button using Android
3	1	Alert Dialogues in Android
4	2	Working with Toggle Button-Checkbox-Dynamic Radio Button-Custom Radio Button-List view -Custom List View- using Android Applications
5	2	Camera in Android
6	2	Seek Bar- Date Picker Time Picker
7	3	Facebook Integration

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Google Maps
9	3	Image Effects in Android
10	4	Loading Spinner in Android
11	4	Login Screen in Android
12	4	Navigation in Android
13	5	Creating Search view on Tool bar
14	5	Progress Bar development
15	5	Connecting SQLite Database in Android

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>JPCS1016 : MAIN PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction.Abstract
2	1	Certificate page, Introduction
3	1	Chapter 1 & Chapter 2 Documentation Completed
4	2	Login page Design, Web Page Design-Front Page
5	2	Chapter System Design,Module Design
6	2	Coding,Fronnd and Back End
7	3	Chapter 3 System Testing,ODBC Connectivity



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Form Designs,Menu Design
9	3	Data flow ,State Chart Diagram
10	4	Hardware,Software Requirements
11	4	Chapter 4 Documentation System Testing
12	4	Preparation for 2nd Review
13	5	chapter 5 Conclusion and Future Enhancement
14	5	References
15	5	References, Appendix, Completion of the project. Power Point Preparation

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20PCS42 : MOBILE APPLICATION DEVELOPMENT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mobile Device Architecture
2	1	Mobile applications development
3	1	Mobile web applications Business communications
4	2	Software and hardware related constraints Architecting mobile applications
5	2	User interface for mobile applications
6	2	touch events and gestures
7	3	Designing applications with multimedia and web access capability

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Integration with GPS and social media applications
9	3	Accessing application hosted in a cloud computing environment Design pattern for mobile applications
10	4	What does android run on Android internals Android for mobile app development
11	4	Environment setup for android app development Framework Android SDK
12	4	Emulators Emulation First android app
13	5	Introduction to android UI design introduction o android layouts
14	5	Event driven programming in android Activity lifecycle of android
15	5	Menu Basic operations of SQLite

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>HEMALATHA J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20PCSP46 : PRACTICAL - VI : ANDROID APPLICATION</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple android application using kotlin in android studio
2	1	An android application for alert box
3	1	A simple android application using TextView-EditText and AutoCompleteTextView controls
4	2	A simple android application using Button control and Linear layout
5	2	An android application for representing simple calculator
6	2	An android application for menu and screen navigation
7	3	A simple android application using spinner control

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	An android application for Time Picker control
9	3	An android application using Date Picker control
10	4	An android application using progress bar control
11	4	An android application using image slider control
12	4	An android code for login control in web pages
13	5	An android application for working with google map
14	5	A simple android application to add and retrieve details of employees using SQLite
15	5	A simple android application remove and update students academic details using SQLite

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>JPCS1016 : MAIN PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to go for main project to different companies
2	2	Discussion about different companies offering main projects
3	3	Discussion about the topics chosen by different students
4	4	Discussion about the project documentation - Part- I
5	5	Lit of Project Topics
13	13	Each student executed the project.
14	14	Final Project documentation

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
15	15	Final Review meeting
6	6	Students completed the home page and presented
7	7	First review meeting - Topic, Front Certificate page, Abstract, Introduction, Existing System, Proposed System
8	8	Students discussing about the various modules
9	9	Students executed the project using dot net, android and php projects
10	10	Discussion about the project documentation Part- II
11	11	Second Review Meeting
12	12	Discussion about the project documentation Part- III

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20PCSP46 : PRACTICAL - VI : ANDROID APPLICATION</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple android application using kotlin in android studio
2	2	An android application for alert box
3	3	A simple android application using Text View-Edit Text and
4	4	Auto Complete Text View controls
5	5	A simple android application using Button control and Linear
15	15	Details using SQLite
14	14	A simple android application remove and update students academic



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
11	11	An android code for login control in web pages
12	12	An android application for working with google map
13	13	A simple android application to add and retrieve details of employees using SQLite
6	6	An android application for Time Picker control
7	7	A simple android application using spinner control
8	8	An android application using Date Picker control
9	9	An android application using progress bar control
10	10	An android application using image slider control

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18JPIT22 : PROJECT - II : JAVA PROGRAMMING OR RDBMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Initial Communication
2	1	Problem Identification
3	1	Preparation of SRS
4	2	Preparation of SRS
5	2	Planning-Cost Estimation and Scheduling
6	2	Requirement Analysis
7	3	Analysis and Design

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Data Modelling
9	3	Flow Oriented Modelling
10	4	Construction-Coding
11	4	Construction-Coding
12	4	Construction-Coding, Testing
13	5	Construction-Coding, Testing
14	5	Deployment-Implementation
15	5	Deployment-Feedback

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>EPIT14A : E-COMMERCE</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to E-commerce- E-commerce Framework- Electronic Commerce and Media Convergence-Anatomy of E-commerce Applications
2	1	Components of the I-Way - Network Access Equipment - Global Information Distribution Networks
3	1	Internet Technology-NSFNET: Architecture and Components- National Researcher and Educational Network
4	2	Electronic Commerce and World Wide Web: Architectural Framework for E-WWW Architecture- Hypertext Publishing
5	2	Consumer Oriented Applications- Merchandise Process Models- Consumers Perspective-Merchants Perspective
6	2	Electronic Payment Systems-Types-Designing EPS-Smart cards and EPS-Credit cards and EPS
7	3	Electronic Data Interchange (EDI): Applications-Security and Privacy Issues

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Softwdre Implementation-Value Added Network-Internal Information Systems
9	3	Workflow Automation and Coordination- Customization and Supply Chain Management
11	4	E-commerce Catalogs and Directories- Information Filtering
12	4	Consumer Data Interface:Emerging Tools
13	5	Multimedia and Digital Video: Concepts-Digital Video and E-commerce video conferencing
14	5	Frame Relay- Cell Relay- Mobile Computing-Framework
15	5	Wireless Delivery Technology-Cellilar Data Communication Protocols
10	4	Marketing on the Internet: Advertising on the Internet-Chatting the On-Line Marketing Process

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SURESH G</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>PIT23A : SOFTWARE TESTING</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Principles of Testing - Software Development Life Cycle Models: Phases of Software Project - Quality, Quality Assurance and Quality Control
2	1	Testing, Verification and Validation - Process Model to represent different Phases
3	1	Life Cycle Models: Waterfall Model, Prototyping and Rapid Application Development Models, Spiral or Iterative Model, The V-Model, Modified V- Model.
4	2	Types of Testing - White Box Testing: Static Testing ,Structural Testing
5	2	Black Box testing: Need for Black Box Testing, Black Box Testing Techniques - Integration Testing: Types of Integration Testing
6	2	Defect Bash - System and Acceptance Testing: Need for System Testing, Functional System Testing, Non- Functional Testing
7	3	Performance Testing: Factors Governing Performance Testing, Methodology for Performance Testing, Tools for Performance Testing, Process for Performance Testing

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Regression Testing: Types of Regression Testing, Need for Regression Testing, Regression Testing Methodologies
9	3	Testing of Object Oriented Systems : Primer on Object Oriented Software, Differences in OO Testing
10	4	Test Planning and Reporting: Test Planning
11	4	Test Management, Test Process
12	4	Test Reporting, Best Practices
13	5	Software Tools: Software Test Automation: Skills needed for Automation, What to Automate and Scope for Automation
14	5	Design and Architecture for Automation, Selecting a Test Tool
15	5	Test Metrics and Measurements: Types of Metrics: Project Metrics, Progress Metrics, Productivity Metrics

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>PIT11B : PROBLEM SOLVING TECHNIQUES USING C</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Introduction to C Constants
2	1	Variables, Data types
3	1	Operators and Expressions.
4	2	Input / Output and Control Structures : Managing Input and Output operations
5	2	Decision Making and Branching
6	2	Decision making and Looping.
7	3	Arrays and Functions: Arrays Character Arrays and Strings



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	User defined Functions
9	3	Built-in-Functions.
10	4	Structures and Pointers: Structures and unions
11	4	Pointers
12	4	Pointers with Arrays Pointers with structures.
13	5	File Management and Graphics: File management
14	5	Dynamic memory allocation
15	5	Preprocessors Graphics in C.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>PITP11B : PRACTICAL - I : C - PROGRAMMING AND WEB TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Create console-based applications using C language.
2	1	Develop simple console-based programs using C language with features like decision making statements, loops.
3	1	Develop simple console-based programs using C language with features like decision making statements, loops.
4	2	Write modular programs by using functions.
5	2	Use preprocessor directives in a program.
6	2	Use pointers to handle integer arrays.
7	3	Develop C programs using structures, pointers.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Develop C programs using structures, pointers.
9	3	Use pointers to handle integer arrays, strings and files.
10	4	Use pointers to handle integer arrays, strings and files.
11	4	Process data in files using file I/O functions.
12	4	Process data in files using file I/O functions.
13	5	Develop C programs using dynamic memory allocation.
14	5	Develop C programs using dynamic memory allocation.
15	5	C program to find binary addition and binary subtraction.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LOURDU CAROLINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To find the area and perimeter of a Circle and Rectangle using Buffered Reader Class.
2	1	String Manipulation using String and String Buffer Class.
3	1	String Manipulation using String and String Buffer Class.
4	2	Implementing packages for simple application.
5	2	Implementing packages for simple application.
6	2	Implementing Interfaces in Java.
7	3	Implementing Interfaces in Java.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create an application using AWT Controls.
9	3	Loading image onto Applet.
10	4	Chatting application using TCP/IP.
11	4	To develop a program for factorial of a number using RMI.
12	4	To develop a program for factorial of a number using RMI.
13	5	Create a Login form using Servlet in NetBeans.
15	5	to develop an application for Student Mark List using Servlet with Database (Ms-Access).
14	5	Create a Login form using Servlet in NetBeans.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PIT21 : OBJECT ORIENTED PROGRAMMING USING JAVA</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Classes & Objects in Java: Introduction to Java - Features of Java
2	1	Data types – Classes and Objects
3	1	Constructors – String Class - Using Super - Abstract class
4	2	Packages, Interfaces and Threads: Creating Packages – Importing Packages
5	2	Interfaces - Defining an Interface, Implementing Interfaces - Exception Handling (Try, Catch, Throw and Throws)
6	2	Thread – Multithreading.
7	3	Working with Windows using AWT Classes : AWT: AWT Hierarchy (Components & Containers) – AWT Controls (Label, TextField, TextArea, CheckBox, Button)

\*\* It is an auto generated report \*\*

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Layouts - Sample Program using AWT Controls.
9	3	Applets: Introduction to Applets – Life Cycle of Applets – Sample program using Applets.
10	4	Networks & RMI :Networks basics - Socket Programming
11	4	Proxy Servers - TCP/IP Sockets - INet Address - URL - Datagrams
12	4	Architecture of RMI – An example program using RMI.
13	5	Database & Java Servlets:JDBC Overview – JDBC Drivers – Connection Class – Command Class – ResultSet Class.
14	5	Servlet: Servlet Overview – Servlet Terminology – Servlet API – HTTP Servlet Class – Servlet Life cycle
15	5	Session Tracking in Servlets (Cookies, Hidden Form Field, URL Rewriting-HTTP Session) - Create a Servlet in NetBeans.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	sample program using java
2	1	To find the area and perimeter of a Circle and Rectangle using Buffered Reader Class.
3	1	String Manipulation using String and String Buffer Class
4	2	sample program using interface and packages
5	2	Implementing packages for simple application
6	2	Implementing Interfaces in Java.
7	3	sample program using AWT



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create an application using AWT Controls.
9	3	Loading image onto Applet
10	4	sample program to send a string from one system to another
11	4	Chatting application using TCP/IP.
12	4	To develop a program for factorial of a number using RMI
13	5	sample program to execute servlet program
14	5	Create a Login form using Servlet in NetBeans
15	5	To develop an application for Student Mark List using Servlet with Database (Ms-Access).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18JPIT22 : PROJECT - II : JAVA PROGRAMMING OR RDBMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	project discussion:Introduction
2	1	project discussion:types of project
3	1	project discussion:choose title of the project for each student
4	2	project discussion:writing synopsis
5	2	project discussion:writing synopsis
6	2	project discussion:writing chapter
7	3	project discussion:writing chapter

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	project discussion:database concept
9	3	project discussion:database concept
10	4	project discussion: services
11	4	project discussion:services
12	4	project discussion:conclusion and future enhancement
13	5	project discussion:mock viva-I
14	5	project discussion: Mock viva-II
15	5	project discussion:Mock viva III

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>NIRMALA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>1</b>
Subject	<b>PIT12B : INTRODUCTION TO INFORMATION TECHNOLOGY</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
2	2	Language translator - Interpreter
3	2	Language translator- Assembler.
4	2	Operating System: Definition – Job -
5	2	Objective and evolution of operating system -
6	2	Types of operating systems.
7	2	Revision
8	4	Network Applications: Introduction about Internet

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	4	- Internet basics - Internet protocols
10	4	- Internet addressing
11	4	- Browser –WWW - E-mail
12	4	– telnet – ftp – application
13	4	- benefits and limitation of internet
15	4	revision
1	2	Language translator: Compiler
14	4	electronic conferencing - teleconferencing.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROBERT ADAIKALARAJ J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Queries using DML, DDL, DCL commands.
2	1	Simple Queries using DML, DDL, DCL commands.
3	1	Writing Queries using Operators.
4	2	Writing Queries using Operators.
5	2	Built-In SQL functions.
6	2	Built-In SQL functions.
7	3	Built-In SQL functions.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Generating Reports using SQL*PLUS Commands.
9	3	Generating Reports using SQL*PLUS Commands.
10	4	Working with Constraints.
11	4	Working with Constraints.
12	4	SUB-QUERIS.
13	5	JOINS
14	5	JOINS
15	5	Creating VIEWS.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PIT22 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	SQL Concepts: Data types-String functions-Single value functions--- -Grouping Things Together:
2	2	Aggregate functions-List functions
3	2	Findings Rows with MAX or MIN-Date functions-Conversion functions
4	2	Date functions-Conversion functions
5	2	Creating a view- Stability of a view-Order by views-Creating a read only view
6	2	The use of group by and having-views of Groups-Sub queries-Advanced Sub queries-
7	2	Grouping Things Together: The use of group by and having-Outer joins-Natural and inner joins



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Union, Intersect and minus.
9	5	Introduction to PL/SQL: Declarations section--
10	5	Executable commands section-Exception handling section
11	5	Cursor Management-Procedures, Functions & Packages
12	5	Triggers: Syntax-Types of Triggers: Row level-
13	5	Statement level-before & after-Instead of Schema--
14	5	Database level triggers-
15	5	Enabling & Disabling triggers.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PIT22 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SQL Basics: Introduction to RDBMS – Normalization: First Normal form-Second Normal form-Third Normal form
2	1	Creating a Table-Integrity Constraints- Creating,
3	1	Modifying and Dropping -Select, from, where and Order by
4	1	Logic and Value: Single value tests-LIKE-NULL and NOT NULL- Simple tests against a list of values
5	1	Combining logic-Dropping tables-Altering a table: Adding or modifying a column-
6	1	Changing Data: insert-multiple inserts-update-merge-delete-rollback-commit and Save point.
7	3	Advanced SQL Concepts: Decode and Case: if, then, else-Decode and Case-Creating a table from a table

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Using Partitioned Tables: Creating a Partitioned Table-Creating Sub partitions
9	3	-Indexes-Clusters-Sequences.
10	3	Users, Roles and Privileges: Creating a user-Password Management-Standard Roles- Format for grant command- Revoking privileges-What users can Grant: Moving to another user –Create synonym-Create a role-Granting privileges to a role-Granting a role to a...
11	3	Adding password to a role -Removing password from a role – Enabling & Disabling roles-Revoking privileges from a role-Drop a role.
12	4	Using SQL*Loader to load data: The Control file-Loading Variable length data-Starting the load-Syntax
13	4	Managing the data loads-Tuning Data loads-Using External Tables: Access an external data-External table: Creation-Limitation-Benefits.
14	4	Object–Relational Databases: Implementing Types-Object Views- Methods-Collectors (Nested Tables and Varying Arrays)
15	4	Using Large Objects-Advanced Object –Oriented Concepts.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>2</b>
Subject	<b>18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Writing Basic SQL Statements
2	1	Writing Basic SQL Statements
3	2	. Table Constraints
4	3	Working with Built-in-functions of SQL.
5	4	Joins
6	4	Sub Queries
7	5	Loading data using SQL*loader

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	6	PLSQL BLOCKS
9	7	Exception Handling
10	8	Cursors.
11	9	Creating Stored procedures,
12	9	functions and packages.
13	10	10. Triggers.
14	11	11. Working with Abstract Data Types i) Types ii) Object Views
15	11	iii) Methods iv) Nested Tables v) Varying arrays.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN PRADEEP EBENEZER A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19EPIT33 : INTERNET OF THINGS</b>	Course	<b>Computer Applications</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basics of IoT – Overview-IoT
2	1	Key Features-IoT AI-Artificial Intelligence Connectivity Active Engagement and Small Devices Sensors
3	1	Advantages-IoT Access Information-Communication-Cost Effective and Automation
4	1	Disadvantages-IOT Privacy and Security-Complexity-Lesser Jobs and Dependability
5	1	Application of IoT. General Introduction on Manufacturing Applications-IoT - Energy Applications-IoT - Healthcare Applications-IoT - Building/Housing Applications-IoT - Transportation Applications-IoT - Education Applications-IoT - Government Applications
6	2	IoT Hardware The Thing We Are Going To Monitor Data Acquisition Module Data Processing Module Communication Module
7	2	IoT Sensors-Wearable Electronics



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Wearable Smart Devices Near-body electronics On-body electronics In-body electronics Electronic Textiles Standard Devices
9	2	IoT Software C & C++ Python B#
10	2	IoT Technology and Protocols RFID, NFC, low-energy Bluetooth, low-energy wireless, low-energy radio protocols, LTE-A, and WiFi-Direct.
11	4	IoT Applications- Manufacturing Applications-IoT
12	4	Energy Applications-IoT - Healthcare Applications
13	4	IoT - Building/Housing Applications-IoT -
14	4	Transportation Applications-IoT - Education Applications-IoT
15	4	Government Applications

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>18PIT31 : MOBILE APPLICATION DEVELOPMENT</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Android,Features of Android,Required Tools
2	1	First Android Application,Debugging application-
3	1	Publishing Application,simple app creation using Java
4	2	Activities : Styles and Themes, Hiding, Displaying a dialog window,
13	5	introduction to Databases and communication,Creating and using Databases
14	5	Content Provider-Creating own Content Providers.
15	5	SMS Messaging-Sending Email.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
5	2	progress dialog, Linking activities using Intents
6	2	Fragments and Notifications.
7	3	introduction to Layouts and views , Screen Layouts-Orientation-Basic Views, Progress Bar. Views-Picker Views-List View.
8	3	Orientation,Basic Views, Progress Bar
9	3	introduction to Views-Picker Views-List View.
10	4	Views and Data Persistence: Image Views-Menus with Views
11	4	Data Persistence: Saving and Loading user Preferences
12	4	Web View and Persisting Data to Files

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN BERNARD Z</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>19EPIT33 : INTERNET OF THINGS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	Media
2	3	Marketing,&Advertising
3	3	IoT-Environmental Monitoring
4	5	introduction to Python
5	5	data types
6	5	variables
7	5	Arrays

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Python and Iot
9	5	Working with Python on Intel Galileo Gen 2.
10	5	Interacting with Digital Output with Python
11	5	Example 1:Retrieving Data from the Real World with Sensors
12	5	Example 2: Retrieving Data from the Real World with Sensors.
13	5	Example 3: Retrieving Data from the Real World with Sensors.
14	5	Example 4: Retrieving Data from the Real World with Sensors.
15	5	Example 5: Retrieving Data from the Real World with Sensors.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ROSELINE R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>18EPIT34 : DISTRIBUTED OPERATING SYSTEMS</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Introduction to Distributed Systems, What is a Distributed System?.
2	1	Hard ware concepts, Software concepts.
3	1	Design issues.
4	2	Inter-Process Communication: Communication in Distributed Systems.
5	2	Layred Protocols, ATM networks, The Client – server model.
6	2	Remote Procedure call, Group communication.
7	3	Synchronization : Synchronization in Distributed System, Clock Synchronization.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Mutual Exclusion, Election algorithms.
9	3	Atomic transactions, Deadlocks in Distributed Systems.
10	4	Processor allocation and Real Time Systems: Process and processors in Distributed System.
11	4	threads, System Models, Processors allocation.
12	4	Scheduling in Distributed System, Fault tolerance, Real time Distributed System.
13	5	File system and Shared memory:Distributed File Systems, Distributed File System Design.
14	5	Distributed File System implementation, Trends in Distributed File System.
15	5	.Distributed Shared Memory, Introduction.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>18PIT32 : OPEN SOURCE TECHNOLOGIES</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Working with files: Include Files with INCLUDE- creating and deleting files opening a file for reading- writing or Appending- Reading from files- Validating Files.
2	1	Loops- Code Block- Sending data to the browser-Working with Arrays: Arrays- Creating array- Array related Functions
3	1	Working with Function: Function Calling Function- Defining Function- Returning the Values from user defined function- Variable Scope- Argument
4	2	Working with Strings, Date and Time Functions: Formatting String with PHP- Date and Time Function- String Manipulation and Investigating Strings with PHP-Working with Forms: Creating form- Handling form- Validating form data
5	2	Accessing form data- use of Hidden fields to save State- Redirecting user- file Upload-Working with Cookies and User Session: Introduction of Cookie- Setting a Cookie with PHP
6	2	Introduction of Session and Improving Session Security- Starting a Session- Working with Session Variables- Passing Session Id in the query String- Destroying Session and Unsetting Variables
7	3	Error Handling and Debugging: General error types and debugging- displaying PHP errors- Adjusting Error Reporting- Creating Custom error handler- PHP debugging techniques



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Filter: Types of Filter- Functions of Filter- Validate the data with filter option and sanitize
9	3	Working with files: Include Files with INCLUDE- creating and deleting files opening a file for reading- writing or Appending- Reading from files- Validating Files.
10	4	Working with Directories: Directory related function- \$DIR object in PHP-Working with Images: Image related function- Miscellaneous function
11	4	Introduction To OOP: The basic auto loading objects- Class- Extends- Constructs- Scope Resolution Operator
12	4	Parent serializing object- The magic objects sleep and awake- reference inside the constructor comparing objects- Visibility- overloading- object interface- pattern- magic method.
13	5	Learning Basic SQL Command: Table Creation- Insert row- Select Command Using Where Clause- Update and Delete Command- Replace Command- String Function- Date and Time Functions- Stored Procedures
14	5	Join- Indexing and Sorting query Using MySQL with PHP: Connecting to MySQL and selecting the database
15	5	Executing simple queries- retrieving query results- counting return Records- updating- Record Addition- Viewing Record- and Deletion Record with PHP.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>18PITP33 : PRACTICAL III - ANDROID APPLICATION AND WEB DEVELOPMENT USING PHP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	String functions in PHP.
2	1	Date functions in PHP.
3	1	Form creation using POST method
4	2	Database Operations using mysql.
5	2	Database Operations using mysql.
6	2	Login form using session.
7	3	Class and Object in PHP.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Class and Object in PHP.
9	3	Electricity bill preparation.
10	4	Develop a simple online shopping cart.
11	4	Student mark list creation with validation
12	5	Develop a simple bank application.
13	5	Develop a simple bank application.
15	5	Develop an application for employee pay slip
14	5	Develop an application for employee pay slip

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROKIAMARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>MT616 : COMPLEX ANALYSIS - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simply connected domains – Multiply connected domains – Cauchy integral's formula .
2	1	An extension of Cauchy integral's formula – Some consequences of the extension– Liouville's theorem.
3	1	the fundamental theorem of Algebra – Maximum modulus principle
4	2	Convergence of sequences – Convergence of series – Taylors Series .
5	2	Proof of Taylor's theorem – Examples – Laurent Series .
6	2	Proof of Laurent's Theorem – Examples – Uniqueness of Series representations.
7	3	Isolated singular points – Residues – Cauchy's Residue Theorem .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Residue at infinity– The three types of isolated singular points – Residues at poles .
9	3	Examples – Zeros of an analytic function – Zeros and poles.
10	4	Evaluation of improper integrals – Examples .
11	4	Improper integrals from Fourier Analysis – Jordan’ s lemma – Definite integrals involving sines and cosines.
12	4	Argument principle –Rouche’s Theorem.
13	5	Linear transformations – The transformation $w = 1/z$ .-
14	5	Linear fractional transformations – implicit form .
15	5	Mappings of the upper half plane(Omit examples) Conformal mapping: Preservation of angles.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JETHRUTH EMELDA MARY L</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>1</b>
Subject	<b>EPMT705T : MATHEMATICAL PROGRAMMING</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Integer linear programming problem -Gomory's pure ineteger programming problem
2	1	Mixed integer linear programming problem
3	1	Branch and Bound method, Zero -one ineteger programming problem
4	2	Dynamic programming problem
5	2	Dynamic programming problem
6	2	Dynamic programming problem
7	3	Non-linear programming problem

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Non-linear programming problem
9	3	Non-linear programming problem
10	4	Theory of simplex method
11	4	Theory of simplex method
12	4	Theory of simplex method
13	5	Revised simplex method
14	5	Revised simplex method
15	5	Revised simplex method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>EMT617S : PROGRAMMING IN C LANGUAGE</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Structure of C Programs- Programming style
2	1	Executing a 'C' Programs –'c' Tokens
3	1	Keywords and Identifiers
4	2	Constants-Variables-Data Types
5	2	Declaration of Variables- Declaration of Storage Class
6	2	Assigning values to variables, Assignment Operator
7	3	Arithmetic Operators-Relational operators- Logical operators



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Assignment operators-Increment and decrement operators-Conditional operators
9	3	Bitwise operators-Evaluation of Expressions-Precedence of Arithmetic operators
10	4	Formatted input- Formatted output- Decision making with 'IF' statement
11	4	Simple IF statement- The IF....ELSE statement-Nesting of IF... ELSE statement
12	4	The ELSE IF ladder-The switch statement – The ?: Operators-The GOTO statement
13	5	The WHILE statement-The DO statement-The FOR statement-Jumps in LOOPS
14	5	One dimensional array-Declaration of one dimensional arrays-Initialization of one dimensional arrays
15	5	Two dimensional arrays-Multi dimensional arrays

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>6</b>
Subject	<b>MTP601 : PRACTICAL - PROGRAMMING IN C LANGUAGE</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Assigning the ASCII value. Square of numbers: Using For loop,
2	1	Square of numbers:While loop, Square of numbers: Do- while loop,
3	1	Square of numbers :Go to statement.
4	2	Printing Alphabets between two letter
5	2	Counting Vowels and consonants.
6	2	Printing Prime number between two numbers
7	3	Fibonacci series

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Factorial numbers
9	3	Power of a value
10	4	Checking Palindrome in string
11	4	Sin(X) series, Cos(X) series
12	4	Pascal Triangle, Binary search
13	5	Matrix Transpose
14	5	Matrix Addition, Matrix Subtraction
15	5	Matrix Multiplication

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>PMT809T : FLUID DYNAMICS</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Real fluids and Ideal fluids- Velocity of a fluid at a point, Streamlines, path lines
2	1	steady and unsteady flows- The Velocity potential – The vorticity vector – Local and particle rates of changes
3	1	Equations of continuity- Worked examples- Acceleration of a fluid – Conditions at a rigid boundary.
4	2	Pressure at a point in a fluid at rest – Pressure at a point in a moving fluid
5	2	Conditions at a boundary of two inviscid immiscible fluids – Euler's equation of motion
6	2	Bernoulli's equation- worked examples- Discussion of the case of a steady motion under conservative body forces
7	3	Introduction – Sources and Problems

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sinks, doublets and problems
9	3	Image in a rigid infinite plane – Axis symmetric flows.
10	4	Meaning of two dimensional flow – Use of Cylindrical polar coordinate – The stream function
11	4	The complex potential for two-dimensional, irrotational incompressible flow- Complex velocity potentials for standard two-dimensional flows
12	4	Some worked examples- Two dimensional Image systems- The Milne Thompson circle Theorem.
13	5	Stress components in a real fluid – Relations between Cartesian components of stress – Translational motion of fluid elements
14	5	The rate of strain quadric and principal stresses- some further properties of the rate of strain quadric – Stress analysis in fluid motion
15	5	Relation between stress and rate of strain – The coefficient of viscosity and Laminar flow – The Navier – Stokes equations of motion of a Viscous fluid.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROCKIA ARULDOSS J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>1</b>
Subject	<b>PMT701 : Algebra - I</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Another counting principle-conjugacy- .
2	1	conjugacy is an equivalence relation-normalizer-normer is a equivalence relation.
3	1	centre of G-theorems, problems and exams
4	2	Sylows Theorem-definition of Sylows theorems-
5	2	first part of Sylow theorem-second part of Sylow theorem-.
6	2	third part of Sylow theorem-conjugacy between two subgroups of G- problems and examples
7	3	Direct Products-internal direct product-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	external direct product- Finite Abelian groups-invariants of $G$ -normal in $G$ -
9	3	Modules-left $R$ -module-right $R$ -module-submodule-cyclic submodule-finitely generated $R$ - problems and examples.
10	4	Canonical Forms-similar matrices- invariant under $T$ -Triangular forms-nilpotent index of $T$ -
11	4	cyclic with respect to $T$ -dimension of $M$ - A Decomposition of $T$
12	4	Jordan form-Jordan block-theorems and examples.
13	5	Rational Canonical Form-companion matrix-elementary divisors-characteristic polynomial-
14	5	Trace and Transpose- Trace and Transpose-trace of $T$ -matrix of $T$ -transpose of a matrix-symmetric matrix-skew symmetric matrix-adjoint of a matrix-
15	5	Determinant of a matrix-Cramers rule-secular equation of $A$ -examples and problems.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANJAL MOSE S Dr.	Academic Year	2022-2023
Department	Mathematics	Semester	2
Subject	EPMT810T : OPERATION RESEARCH	Course	Mathematics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Difference between PERT and CPM, Steps in PERT/CPM Techniques
2	1	PERT/CPM, Network Components and Precedence Relationships, Critical Path Analysis – Probability in PERT Analysis
3	1	Project time-cost Trade Off – Updating the Project – Resource Allocation.
4	2	Meaning of inventory Control, Functional Classification, Advantage of Carrying Inventory
5	2	Features of Inventory System, Inventory Model building
6	2	Deterministic Inventory Model with no Shortage – Deterministic Inventory with Shortages.
7	3	Essential Features of Queueing System, Operating Characteristic of Queueing System



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Probabilistic Distribution in Queueing Systems, Classification of Queueing Models
9	3	Solution of Queueing Models – Probability Distribution of Arrivals and Departures
10	4	Failure Mechanism of Items, Replacement of Items Deteriorates with Time
11	4	Replacement of Items that fail completely , other Replacement Problems.
12	4	Replacement Problems.
13	5	Steps of Simulation Process, Advantages and Disadvantages of Simulation
14	5	Monte Carlo Simulation, Random Number Generation, Simulation Inventory Problems
15	5	Queueing Problems, PERT Problems.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AROKIAMARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>4</b>
Subject	<b>PMT1016 : COMPLEX ANALYSIS - II</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Weierstrass's Theorem, the Taylor Series and The Laurent Series.
2	1	Partial Fractions and Factorization: Partial Fractions, Infinite Products.
3	1	Canonical Products, the Gamma Function
4	2	Jensen's Formula, Hadamard's Theorem.
5	2	The Riemann Zeta Function: The Product Development.
6	2	Extension of $\zeta(s)$ to the Whole Plane, The Functional Equation, The Zeros of the Zeta Function.
7	3	Equicontinuity, Normality and Compactness.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Arzela's Theorem, Families of Analytic Functions, The Classical Definition.
9	3	The Riemann Mapping Theorem, Boundary Behavior, Use of the Reflection Principle.
10	4	The Behavior at an Angle, The Schwarz-Christoffel formula, Mapping on a Rectangle.
11	4	. A Closer Look at Harmonic Functions: Functions with the Mean-Value Property, Harnack's Principle.
12	4	Simply Periodic Functions: Representation by Exponentials, The Fourier Development, Functions of Finite Order.
13	5	The Period Module, Unimodular Transformations, The Canonical Basis,
14	5	General Properties of Elliptic Functions. The Weierstrass Theory:
15	5	The Weierstrass P-function, The Functions $s(z)$ and $\eta(z)$ , The Differential Equation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.VENKATESAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>PMT809T : FLUID DYNAMICS</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Real fluids and Ideal fluids- Velocity of a fluid at a point, Streamlines, path lines
2	1	steady and unsteady flows- The Velocity potential – The vorticity vector – Local and particle rates of changes
3	1	Equations of continuity- Worked examples- Acceleration of a fluid – Conditions at a rigid boundary.
4	2	Pressure at a point in a fluid at rest – Pressure at a point in a moving fluid
5	2	Conditions at a boundary of two inviscid immiscible fluids – Euler's equation of motion
6	2	Bernoulli's equation- worked examples- Discussion of the case of a steady motion under conservative body forces
7	3	Introduction – Sources and Problems

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Sinks, doublets and problems
9	3	Image in a rigid infinite plane – Axis symmetric flows.
10	4	Meaning of two dimensional flow – Use of Cylindrical polar coordinate – The stream function
11	4	The complex potential for two-dimensional, irrotational incompressible flow- Complex velocity potentials for standard two-dimensional flows
12	4	Some worked examples- Two dimensional Image systems- The Milne Thompson circle Theorem.
13	5	Stress components in a real fluid – Relations between Cartesian components of stress – Translational motion of fluid elements
14	5	The rate of strain quadric and principal stresses- some further properties of the rate of strain quadric – Stress analysis in fluid motion
15	5	Relation between stress and rate of strain – The coefficient of viscosity and Laminar flow – The Navier – Stokes equations of motion of a Viscous fluid.

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>ANJAL MOSE S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Mathematics</b>	Semester	<b>2</b>
Subject	<b>EPMT810T : OPERATION RESEARCH</b>	Course	<b>Mathematics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic Difference between PERT and CPM, Steps in PERT/CPM Techniques
2	1	PERT/CPM, Network Components and Precedence Relationships, Critical Path Analysis – Probability in PERT Analysis
3	1	Project time-cost Trade Off – Updating the Project – Resource Allocation.
4	2	Meaning of inventory Control, Functional Classification, Advantage of Carrying Inventory
5	2	Features of Inventory System, Inventory Model building
6	2	Deterministic Inventory Model with no Shortage – Deterministic Inventory with Shortages.
7	3	Essential Features of Queueing System, Operating Characteristic of Queueing System



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Probabilistic Distribution in Queueing Systems, Classification of Queueing Models
9	3	Solution of Queueing Models – Probability Distribution of Arrivals and Departures
10	4	Failure Mechanism of Items, Replacement of Items Deteriorates with Time
11	4	Replacement of Items that fail completely , other Replacement Problems.
12	4	Replacement Problems.
13	5	Steps of Simulation Process, Advantages and Disadvantages of Simulation
14	5	Monte Carlo Simulation, Random Number Generation, Simulation Inventory Problems
15	5	Queueing Problems, PERT Problems.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	MERCY ANTHONY	Academic Year	2022-2023
Department	Micro Biology	Semester	1
Subject	21EPM16A : BIostatistics	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Measures of central tendency: Arithmetic Mean, Median, Mode.
2	1	Measures of Dispersion: Standard Deviation and Coefficient of Variation.
3	2	Correlation analysis: Karl Pearson's
4	2	Spearman's rank and Concurrent deviation methods.
5	2	Regression Analysis: Simple regression equations.
6	3	Sampling theory: types of sampling
7	3	Sampling and non sampling error—Advantages and disadvantages in sampling.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Small sample: test of significance based on t
9	4	F and Chi-Square distribution
10	4	Chi-Square distributions with respect of mean
11	4	Variance and correlation coefficients
12	5	Analysis of Variance – One way classifications
13	5	Two way classifications
14	5	Basic principles of design of experiments: Randomization, Replication and Local Control.
15	0	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PARIMALA CELIA M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>21PMB14 : MICROBIAL ECOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Microbial communities – terminology, ecological hierarchy, ecological niche; Microbial colonization - energy flow in ecosystem
2	1	Environmental factors affecting microbial populations; Adaptation of microorganisms in various ecosystem
3	1	Atmosphere - Microbiology of air, droplet nuclei, aerosols, enumeration of microorganisms in air, air sanitation, Laboratory hazards, airborne disease
4	2	Interaction of microorganisms with their physical and chemical environments; marine ecosystem -mangroves, estuaries, deep seas and hydrothermal vents;
5	2	fresh water ecosystem - lakes, rivers, ponds; terrestrial ecosystem - rock and soil, prairie, forest, tundra
6	2	extreme environments - hot springs, glaciers and acid-mine drainage; interaction of microorganisms with plants, animals and microorganisms.
7	3	Biogeochemical cycles - carbon, nitrogen, sulfur, iron, and phosphorus cycles

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Adaptation of microorganisms to toxic pollutants; biodegradation of xenobiotics
9	3	Pesticides, heavy metals, Hydrocarbons) – mechanisms.
10	4	Waste water treatment - primary, secondary (anaerobic and aerobic - trickling, activated sludge, oxidation pond), Sludge digestion, Disposal;
11	4	Drinking water treatment – chlorination; Microbiological standards of water; Water pollution - indicators of water pollution
12	4	BOD – COD - techniques for the study of water pollution; Waterborne diseases.
13	5	Quantitative microbial ecology - Culture based methods and molecular based methods
14	5	Composting –landfills; Bioleaching of metals; Biodeterioration of paint, textile and leather
15	5	biofouling; Biofilms; Microbial enhanced oil recovery.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PARIMALA CELIA M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>21EPM25A : RESEARCH METHODOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Research – Definition – Experimental designs
2	1	Identification, Selection and formulation of research problem
3	1	– Research questions – Research Hypothesis
4	2	Literature Collection – Literature Citation
5	2	Major search engines - Major Websites
6	2	book and scientific information – Journals – Impact factor.
7	3	Research Report – Components of a Research Report – Authors and Addresses – Abstract – Synopsis –Key words

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Introduction – Materials and Methods – Results – Discussion – Acknowledgements – Summary and Conclusions – Appendixes – References
9	3	Title – Tables – Figures – Formatting and Typing.
10	4	Biological research - Institutional Ethical committee
11	4	Animal ethical committee
12	4	Use of laboratory animals in research - Laboratory animal management.
13	5	General Laboratory Procedures – pH, Buffers, Electrodes and Biosensors –
14	5	Estimation of Carbohydrates(Bradford Method) – Protein (Lowry Method) – Lipid (Soxlet Method)
15	5	Nucleic Acid (Spectrophotometry) – Techniques for Sample Preparation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>21PMB22 : FERMENTATION TECHNOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Historical development of bioprocess technology, outline of an integrated bioprocess and the various (upstream and downstream) unit operations involved in bioprocesses, generalized process flow sheets
2	1	- General requirements of fermentation processes, Basic design and construction of fermentor and ancillaries - aerator, agitator, valves. steam traps, stirrer and seals
3	1	Main parameters to be monitored and controlled in fermentation processes - asepsis and containment requirements - body construction and temperature, pH control - aeration and agitation systems.
4	2	Sterilization of fermentor; Design of sterilization equipment - aseptic inoculation methods, sampling methods
5	2	valve systems - monitoring and control devices and types of fermentors
6	2	An overview of aerobic and anaerobic fermentation processes and their application in the biotechnology industry; solid-substrate fermentation and its applications.
7	3	Screening and strain development strategies – preservation of industrially important microorganisms- Fermentation media - Desired qualities - Medium requirements for fermentation processes, Carbon, nitrogen, minerals, vitamins and other complex nutrien...



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	media formulation strategies - formulation of optimal growth and product formation, examples of simple and complex media; role of buffers, precursors, inhibitors, inducers and antifoams
9	3	- design and usage of various commercial media for industrial fermentations - Sterilization methods – Batch and Continuous sterilization of medium and air - thermal death kinetics of microorganisms - filter sterilization of liquid media, air.
10	4	Downstream process - Objectives and criteria - foam separation - precipitation methods - filtration devices and filter aids
11	4	- industrial scale centrifugation and cell disruption methods - liquid-liquid extraction - solvent recovery – chromatography - two-phase aqueous extraction
12	4	ultrafiltration, drying devices, crystallisation and whole broth processing-Product formulation Fermentation economics
13	5	Stoichiometry of Cell growth and product formation, degrees of reduction of substrate and biomass, yield coefficients of biomass and product formation
14	5	oxygen consumption and heat evolution in aerobic cultures, thermodynamic efficiency of growth
15	5	Phases of cell growth in batch cultures, product formation kinetics, substrate and product inhibition on cell growth and product formation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>21PMB11 : FUNDAMENTALS OF MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Scope of Microbiology (Employability and Entrepreneurship) - History of Microbiology; Microbial Evolution; Taxonomy: Three-kingdom classification system
2	1	Five-kingdom classification system - Three-domain classification system - Taxonomic ranks - Techniques for determining microbial taxonomy and phylogeny
3	1	Classification and salient features of bacteria according to Bergey's Manual of Determinative Bacteriology
4	2	Light Microscopy - Bright-field microscopy, Dark-field microscopy, Phase-contrast microscopy, Fluorescence microscopy and Confocal microscopy; Electron Microscopy
5	2	Transmission electron microscopy, Scanning electron microscopy and Scanning Tunneling Microscopy; Techniques for light microscopy
6	2	Preparation of specimens for light microscope; Staining techniques – simple, differential and special methods
7	3	Size, shape and arrangement of bacterial cells; Structures external to the cell wall – capsule and slime layers, pili and fimbriae; flagella

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cell wall – composition and characteristics; Structures internal to the cell wall – plasma membrane
9	3	cytoplasm, nucleoid, ribosomes, inclusions and endospores.
10	4	Characteristics, morphology, reproduction, cultivation, classification; Lichens; Algae: occurrence, characteristics – classification, biological and economic importance
11	4	Protozoa: General characteristics, classification; Slime molds
12	4	Viruses: General characteristics, structure and composition, viral multiplication, cultivation, classification; Viroids and virusoids; Prion
13	5	Physical agents – heat, filtration, radiation; Chemical agents – phenolics, alcohols, halogens, heavy metals,
14	5	Quaternary ammonium compounds, aldehydes and sterilizing gases. Antimicrobial therapy
15	5	Antibacterial agents - antifungal agents - antiprotozoan agents - antihelminthic agents – antiviral agents.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MEGALA S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>21PMB21 : MICROBIAL PHYSIOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Microbial Nutrition: Nutritional requirements; Nutritional types of microorganisms; Growth factors; Uptake of nutrients – passive diffusion, facilitated diffusion,
2	1	Active transport, group translocation and iron uptake; Bacteriological media – types of media; Isolation of pure cultures – streak plate, pour plate and spread plate;
3	1	Methods of maintenance and preservation of microorganisms; Culture collections.
4	2	Microbial Growth: Growth curve of bacteria– phases of growth, synchronous growth, mathematics of growth; Measurement of microbial growth; Continuous culture of microorganisms – chemostat and turbidostat;
5	2	Influence of environmental factors on growth – solutes and water activity, pH, temperature, oxygen concentration, pressure and radiation;
6	2	Microbial growth in natural environments – biofilms, cell-cell communication within microbial populations.
7	3	Introduction to Metabolism: Energy and work, Laws of thermodynamics, Free energy and reactions, ATP,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	oxidation-reduction reactions, Electron transport chains, Enzymes, Ribozymes, Regulation of metabolism,
9	3	Post translational regulation of enzyme activity.
10	4	Catabolism: Aerobic respiration; Glycolysis - Embden-Meyerhof pathway, Pentose phosphate pathway and Entner-Doudoroff pathway; Tricarboxylic acid cycle; Electron transport and oxidative phosphorylation; Anaerobic respiration
11	4	Fermentation; Catabolism of carbohydrates and intracellular reserve polymers;
12	4	Lipid catabolism; Protein and aminoacid catabolism, chemolithotrophy; Phototrophy.
13	5	Anabolism: Carbon di oxide fixation; Synthesis of sugars and polysaccharides;
14	5	Synthesis of aminoacids; Synthesis of purines, pyrimidine
15	5	nucleotides; Lipid synthesis.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>1</b>
Subject	<b>21EPM15A : BIOINFORMATICS</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introductory basics: Historical introduction and overview of Bioinformatics; Databases – Introduction, Nucleotide sequence databases, Protein sequence databases,
2	1	Sequence motif databases, Protein structure databases, Enzyme and pathway databases, Family and domain databases; Sequence Formats; Sequence analysis –
3	1	Alignment of pairs of sequences, Multiple sequence alignments; Phylogenetic tree; Database searching for similar sequences – Scoring matrices, BLAST.
4	2	Structural Bioinformatics - Protein structure basics - Amino acids, Peptide formation, Secondary structures, Tertiary structures, Determination of protein three-dimensional structure;
5	2	Protein structural visualization, Protein structure comparison, Protein structure classification; Protein secondary structure prediction - for globular proteins, for transmembrane proteins, Coiled coil prediction; P
6	2	Protein tertiary structure prediction, Methods, Homology modeling, Threading and fold recognition, Ab initio protein structural prediction, CASP.
7	3	Comparative Genomics: Purpose and Methods of comparison, Applications of Comparative Genomics - Reconstruction of metabolic pathway,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Predicting regulatory elements, Identifying targets, examination of domain function, analysis of conserved strings, gene mapping and study of human diseases;
9	3	Genome projects and Model Organism research – Human Genome Project, E. coli, Yeast, Drosophila, C. elegans and Mouse.
10	4	Functional Genomics and Proteomics: Functional Genomics - Sequence-Based Approaches - SAGE; EST - clustering and assembly, EST databases (DBEST, UNIGENE)
11	4	Microarray-based approaches; Proteomics: Technology of protein expression analysis,
12	4	Post-translational modification, Protein sorting, Protein–Protein interactions.
13	5	Pharmacogenomics - Introduction, Benefits, Ethical issues, Pharmacogenomics in the treatment of cancer and cardiovascular diseases as examples.
14	5	Process of drug development - clinical trials phase I, II and III.
15	5	High throughput screening; Phage antibody as tool.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>2</b>
Subject	<b>21PMB24 : MICROBIAL GENOMICS</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Genomics: Introduction, Definitions, Historical Perspectives, Scope and General Approaches; Microbial Diversity and Genomics
2	1	Genome analysis, Next-generation sequencing, Properties of genomes, Genome size, Gene families, Skew
3	1	GC content, and codon usage; Prokaryotic genomes, Microbial eukaryotic genomes.
4	2	Identification of Orthologous Genes; Genome Perspectives on Molecular Clock; Genome Perspectives on Horizontal Gene Transfer - Identification of HGT
5	2	Mechanisms underlying HGT, Types of genes subjected to HGT, Evolutionary impact of HGT; Genomic Perspectives on Gene Duplication
6	2	Gene Loss, and Other Evolutionary Processes; Universal Tree of Life - Genome-based phylogenetic analysis; Minimal Genomes
7	3	DNA microarray technology: Types of Microarrays and Advantages; Microarray Fabrication; Microarray Hybridization and Detection



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Microarray Image Processing; Using Microarrays to Monitor Gene Expression
9	3	Microarray Gene Expression Data Analysis
10	4	Escherichia coli: A Model Eubacterium - E. coli genome, transcriptomics, proteomics, Modeling E. coli metabolism
11	4	Bacillus subtilis: - B. subtilis genome, transcriptomics, proteomics
12	4	Saccharomyces cerevisiae: A Model for higher eukaryotes - Yeast genome, transcriptomics, proteomics, interactome, Comparison with Genomics of Model Eukaryotic Organisms.
13	5	Understanding bacterial pathogenesis through genome sequence and function annotation, Predicting virulence genes from sequence homology,
14	5	Comparative Genomics: Clues to Bacterial Pathogenicity, The genomics of Mycobacterium tuberculosis: virulence gene identification and genome plasticity,
15	5	Extreme radiation-resistant bacterium Deinococcus radiodurans; Hyperthermophilic archaeon Pyrococcus furiosus.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SWAMINATHAN C Dr	Academic Year	2022-2023
Department	Micro Biology	Semester	1
Subject	21PMB13 : MICROBIAL GENETICS	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nucleic acids – Components, Nucleic acids as a genetic material, Griffith and Hershey and Chase experiments; DNA structure and forms
2	1	RNA – types and functions; Denaturation and Renaturation; Plasmids and their types
3	1	Organization of Prokaryotic and Eukaryotic genetic material; Replication of DNA - methods, enzymes involved; DNA damage and Repair
4	2	Gene concept – Gene expression – Transcription – Mechanism, Post transcriptional modifications in prokaryotes and eukaryotes
5	2	Translation – the genetic code – overlapping genes – polypeptide synthesis
6	2	Post transcriptional modifications – Gene regulation – ‘Lac and ‘Trp’ operons
7	3	Mutation – Types, Mutagens, Mutagenesis; Biochemical basis of mutations - spontaneous and induced, Reversion, Suppression

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Gene as a unit of mutation; Onogenes and cancer – Transforming viruses carrying oncogenes –
9	3	genetic analysis of mutants; Transposons
10	4	Gene transfer mechanisms
11	4	Bacterial transformation (detection of transformation, development of competence, mechanism of transformation, transfection)
12	4	Conjugation – effective contact and pili in conjugation, F-factor, the conjugal transfer process; high frequency recombination (Hfr) strains order of chromosome transfer, formation of F prime (F')
13	5	Genetics of bacteriophage – General properties, phage life cycles, phage counting, Host restriction and modification – Phage genetics I: phage T4 – phage mutants, Genetic mapping of phage T4, features of the T4 life cycle.
14	5	Phage genetics II: Phage lambda – lambda DNA and its gene organization, outline of the life cycle of lambda, lambda DNA replication and phage production , recombination in the lambda life cycle.
15	5	Phage genetics III: Lysogeny – immunity and repression, lysogenization and prophage insertion, prophage excision, polylysogeny. Phage genetics IV: Transduction – DNA transfer by means of transduction, cotransduction and linkage, properties of special...

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SWAMINATHAN C Dr	Academic Year	2022-2023
Department	Micro Biology	Semester	2
Subject	21PMB23 : MEDICAL MICROBIOLOGY	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Host-parasite relationship - General attributes and virulence factors of bacteria causing infections
2	1	Pathogenicity and laboratory diagnosis of infections caused by selected bacteria - Staphylococci, Streptococci, Neisseria, Corynebacteria
3	1	Escherichia coli, Salmonella, Shigella, Vibrio.
4	2	Pathogenicity and laboratory diagnosis of infections caused by selected bacteria (contd.) Bacillus, Clostridium, Mycobacterium, Yersinia
5	2	Haemophilus, Helicobacter, Bordetella, Legionella
6	2	Listeria, Rickettsiae, Chlamydia, Spirochaetes, Mycoplasma.
7	3	Characteristics of fungi; Pathogenesis and Lab diagnosis of selected fungal infections - Superficial mycoses – Surface mycoses - Malassezia infections, Tinea nigra, Piedra;

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Cutaneous mycoses – Dermatophytoses; Subcutaneous mycoses - Mycotic mycetoma; Systemic mycoses – Histoplasmosis, Blastomycosis, Coccidioidomycosis;
9	3	Opportunistic Mycoses; Yeasts of medical importance - Candida, Cryptococcus.
10	4	Brief account of selected parasites - Entamoeba histolytica, Giardia intestinalis, Trichomonas vaginalis
11	4	Plasmodium, Cryptosporidium, Pneumocystis carinii, Taenia saginata, Taenia solium
12	4	Schistoma haematobium, Ancylostoma duodenale, Ascaris lumbricoides, Wuchereria bancrofti.
13	5	General properties of viruses - Outline of animal tissue culture - Virus-Host interactions –
14	5	Brief account of the following viruses - Pox viruses, Herpes viruses, Adeno viruses, Picorna viruses
15	5	Orthomyxo viruses, Paramyxo viruses, Arboviruses, Rhabdo viruses, Hepatitis viruses, Rubella virus, Rota virus, Corona Viruses, Retroviruses.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRAKASH J Dr.	Academic Year	2022-2023
Department	Micro Biology	Semester	4
Subject	21PMB41 : MICROBIAL BIOTECHNOLOGY	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and Basics: History and Scope of Microbial Biotechnology – Enzyme technology
2	1	production of microbial enzymes (amylase, pectinases, cellulase)
3	1	Enzyme immobilization, Products, Applications; Biotransformation
4	2	Important industrial fermentations - Amino acid production (glutamic acid and lysine)
5	2	Production of antibiotics (penicillin, tetracycline) - Production of Vitamins (riboflavin, cyanocobalamin)
6	2	Production of alcohol (Ethanol) and beverages (beer and wine) - Organic acids - lactic acid, citric acid
7	3	Biopolymers and Biomass: Microbial production of carbohydrates, Xanthan gum and polyester (PHAs, higher alkanes and methanol)



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Single cell proteins; Microbial whole-cell bioreporters; Biosensors
9	3	Biosensors - Types and Applications; Role of microorganisms in Nanotechnology
10	4	Environmental Biotechnology: Biotechnological methods for environmental monitoring – Recalcitrant xenobiotics
11	4	Biodegradation (hydrocarbons, pesticides, herbicides); Bioremediation
12	4	Bioremediation – contaminated soils and water; marine oil pollutants; Microbes in mining, Ore leaching
13	5	Entrepreneurial Aspects:Qualities of an entrepreneur, Factors influencing entrepreneurship
14	5	Biogas production; Biofuels; Mushroom cultivation; Spirulina cultivation
15	5	Azolla cultivation; Microbial pigments; bacterial and algal carotenoids

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PARIMALA CELIA M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>4</b>
Subject	<b>21EPM42A : BIOTECHNIQUES</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Visualization of cells and sub cellular components by light microscopy, Dark field Microscopy
2	1	resolving powers of different microscope
3	1	microscopy of living cells
4	2	Scanning and transmission microscopes
5	2	different fixation and staining techniques for EM, freeze-etch and freeze-fracture methods for EM
6	2	image processing methods in microscopy
7	3	Chromatography: Principles – Planar Chromatography (Paper and Thin – Layer)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Column Chromatography – Ion-Exchange Chromatography
9	3	Affinity Chromatography
10	4	Gel Exclusion Chromatography – High Performance Liquid Chromatography (HPLC)
11	4	Gas Chromatograph
12	4	LC Mass Spectrophotometry.Nano LC
13	5	Flowcytometry, Nano pro Immuno assay,Immunoabsorption and Immunofluorescence microscopy
14	5	detection of molecules in living cells
15	5	in situ localization by techniques such as FISH and GISH.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN MILTON D Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>21PMB31 : SOIL AND AGRICULTURAL MICROBIOLOGY</b>	Course	<b>Micro Biology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Soil- Chemical and physical properties of soil -Types-Soil as a habitat for microbes microflora of various soil types
2	1	Influence of soil and environmental factors on soil microflora-Role microorganisms in soil fertility- Interaction among soil microorganisms
3	1	Interaction between plants and microorganisms - Rhizosphere, Phyllosphere. Spermosphere effect of soilborne microbes on plant (Harmful and beneficial) - plant growth promoting rhizobacteria-mechanism of plant growth promotion by PGPR
4	2	Microorganisms in soil process - Carbon cycle, Nitrogen cycle, Iron cycle, Phosphorus cycle
5	2	Nitrogen fixation -- Types - symbiotic, free living and associative symbiotic - Mechanism of nitrogen fixation-
6	2	Genetics of nitrogen fixation- Solubilization of nutrients (P, K and Zn) Mobilization of nutrients (Mycorrhizae).
7	3	Biofertilizers - Definition, types and importance - Standards and quality control- Carrier materials

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Isolation and mass multiplication of bacterial biofertilizers (Rhizobium, Azospirillum, Azotobacter, Pseudomonas) - Isolation and mass multiplication of fungal biofertilizer (VAM)
9	3	Isolation and mass multiplication of algal biofertilizers (BGA, Azolla)- Applications - National and regional biofertilizers production and development centers- Advantages and disadvantages of biofertilizers
10	4	Problems associated with chemical pesticides; Biocontrol agents — Definition, Types and importance, Examples and mechanisms of controlling — Bacillus thuringiensis
11	4	Biocontrol agents -Pseudomonas fluorescence, Trichoderma viridae, NPV, Entamopathogenic protozoa and Entamopathogenic nematodes
12	4	Production and applications; Advantages and disadvantages; Microbial genes in creation of pest resistant plants
13	5	Microbial Diseases of plants - disease symptoms, - mode of entry of pathogens factors affecting disease incidence - control measures - Examples -Bacterial Diseases: Bacterial Blight of Paddy, Citrus Canker
14	5	Mycoplasma Diseases: Rice Yellow Dwarf, Grassy shoot of sugarcane, Fungal Diseases: Late Blight of Potato, Downy Mildew of Maize, Rust of Wheat, Wilt of Cotton, Leaf Spot of Turmeric
15	5	Blast disease of Rice, Mango Anthracnose - Viral Diseases: Leaf Curl of Tomato, Yellow Vein Mosaic of Bhendi — Nematode Diseases: Ear Cockle of Wheat, root knot of vegetables

## INTERNAL QUALITY ASSURANCE CELL

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### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>21PMB32 : RDNA TECHNOLOGY</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Molecular Techniques: Agarose gel electrophoresis, Nucleic acid blotting, Southern blotting, Northern blotting, Western blotting
2	1	Transformation of E. coli - Cutting and Joining DNA molecules - Host-controlled restriction and modification, Restriction Endonucleases
3	1	Nomenclature, Mechanical shearing of DNA, Joining DNA molecules (DNA ligase, Double linkers, Adaptors, Homopolymer tailing)
4	2	Cloning vehicles for use in E. coli: Construction and characterization of a new cloning vehicle: pBR322, Improved vectors derived from pBR322
5	2	Direct selection vectors, Low-copy-number plasmid vectors, Runway plasmid vectors - Bacteriophage and cosmid vectors for E. coli - Bacteriophage ?
6	2	Vector DNA, Improved phage ? vectors, Packaging phage ? DNA in vitro, Cosmid vectors, Phasmid vectors.
7	3	Cloning Strategies, Gene Libraries and cDNA Cloning: Cloning strategies, Chromosome walking, cDNA cloning

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Full-length cDNA cloning, Genomic and cDNA libraries; Recombinant Selection and Screening
9	3	South-Western screening for DNA-binding proteins, Nucleic acid hybridization methods.
10	4	Expression of Cloned DNA molecules in E. coli: Expression of fusion proteins, Manipulation of cloned genes to achieve expression of native proteins
11	4	Secretion of proteins, Detecting expression of cloned genes, Maximizing the expression of cloned genes
12	4	Constructing the optimal promoter, The effect of plasmid copy number.
13	5	Genome Editing Technology: DNA finger printing and Foot printing, Restriction fragment Length Polymorphism (RFLP) analysis, RAPD
14	5	Genome Editing: ZFN, TALENS, CRISPR. Applications of recombinant DNA technology - Production of Recombinant and Synthetic Vaccines
15	5	Genetically modified microorganisms; Recombinant proteins as therapeutic agents; Ethical and legal issues in rDNA technology

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KRISHNAN R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Micro Biology</b>	Semester	<b>3</b>
Subject	<b>21PMB34 : HUMAN INFECTIONS AND DIAGNOSIS</b>	Course	<b>Micro Biology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Background to the infectious diseases; Transmission; Specimen Processing; Non-cultural Techniques;
2	1	Cultivation of Microorganisms; Identification of Microorganisms; Antibody detection methods;
3	1	Assessment of host defense systems
4	2	Clinical manifestations and diagnosis of infections by body system
5	2	–Upper respiratory tract infections; Lower respiratory tract infections;
6	2	Urinary tract infections; Sexually transmitted diseases.
7	3	Gastrointestinal tract infections; Obsteric and perinatal infections;



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Central nervous system infections; Infections of the eye;
9	3	Infections of the skin, muscle, joints, bone and hemopoietic system.
10	4	Vector borne infections (Rickettsial diseases, Malaria, Dengue as examples);
11	4	Multisystem Zoonoses; Pyrexia of unknown origin
12	4	– Infections in the compromised host - Hospital acquired infection.
13	5	Anaerobic culture; Serological tests; Nucleic acid techniques in Diagnostic Microbiology; Antimicrobial susceptibility testing -
14	5	General principles, Clinical definition of terms “resistant” and “susceptible” - the three-category system,
15	5	The modified Kirby–Bauer method, Determination of MIC, Quality control.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SWAMINATHAN C Dr	Academic Year	2022-2023
Department	Micro Biology	Semester	3
Subject	21EPM35A : Bioethics and Intellectual Property Rights	Course	Micro Biology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction - Invention and creativity, Intellectual property - importance - protection of IPR
2	3	Basic types of property - movable property, immovable property and intellectual property
3	3	International convention relating to intellectual property - Establishment of WIPO - mission and activities - General agreement on trade and tariff
4	4	Patents, copy rights and related rights
5	4	Trade marks and rights arising from trade mark registration
6	4	Industrial designs, protection of Geographical indications at national and international levels - application procedures
7	5	Indian IPR legislations, Patents ordinance and the Bill

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	National Intellectual property policy
9	5	Case studies on patents - Basmati rice, Turmeric, Neem
10	1	Bioethics -definition - The birth of the concept of bioethics - History of bioethics as a discipline - Bioethics as a bridge between facts and values
11	1	Bioethics versus medical ethics - Health and disease as values - Principles of bioethics
12	1	Health care decisions include facts and values,, Universal declaration on bioethics and human rights
13	2	Ethics committees - need, types, composition, function - human dignity and human rights
14	2	Benefit and harm - definitions, comparing harm and benefits, Autonomy and individual responsibility, health care provider, patient relationship, informed consent
15	2	Animal ethics committee

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ELAYA KUMAR K</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>PPHP12B : ELECTRONICS PRACTICAL - I</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Design full adder and full subtractor and verify its truth table using NAND logic gates (Components Explanation)
2	1	Design full adder and full subtractor and verify its truth table using NAND logic gates (Demo Class)
3	1	Design full adder and full subtractor and verify its truth table using NAND logic gates
4	2	Design full adder and full subtractor and verify its truth table using NOR logic gates (Components Explanation)
5	2	Design full adder and full subtractor and verify its truth table using NOR logic gates (Demo Class)
6	2	Design full adder and full subtractor and verify its truth table using NOR logic gates
7	3	Design 4 bit shift register using JK Flip flop (Components Explanation)

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Design 4 bit shift register using JK Flip flop (Demo Class)
9	3	Design 4 bit shift register using JK Flip flop
10	4	Op-amp – Inverting, non-inverting amplifier – Voltage follower-summing, difference, average amplifier – differentiator and integrator (Components Explanation)
11	4	Op-amp – Inverting, non-inverting amplifier – Voltage follower-summing, difference, average amplifier – differentiator and integrator (Demo Class)
12	4	Op-amp – Inverting, non-inverting amplifier – Voltage follower-summing, difference, average amplifier – differentiator and integrator
13	5	Karnaugh Map (Components Explanation)
14	5	Karnaugh Map (Demo Class)
15	5	Karnaugh Map

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ELAYA KUMAR K</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>PPH11A : CLASSICAL MECHANICS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Principles and Lagrangian Formulation : Mechanics of a particle and system of particles – Conservation laws - Co-ordinate systems -Constraints - Generalized co-ordinates-Degrees of freedom -Principle of virtual work
2	1	D'Alembert's principle -Lagrangian equation of motion from D'Alembert's principle
3	1	Hamilton's principle - Lagrangian equation of motion from Hamilton's principle –Symmetry properties of Space and Time and Conservation laws
4	2	Central Force Motion and Small Oscillations: Reduction of two body problem into one body problem-Central Force and Motion in a Plane –Inverse Square Law of Force
5	2	Kepler's Law of Planetary Motion-Deduction of Keplers First Law – RungeLenz vector – Rutherford Scattering cross section-Centre of Mass and Laboratory frames of references
6	2	Theory of small oscillations – frequencies of free vibration and normal - coordinates – Linear Di & Tri atomic molecules (HCl, NO <sub>2</sub> ) – a spring pendulum – double pendulum
7	3	Hamiltonian Formulations: Hamilton's canonical equation – proof of principle of least action

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	General equations of canonical transformations -Cyclic Co-ordinates- Hamilton - Jacobi differential equation
9	3	Legrange's brackets and Poisson's brackets – Action angle variables – the Kepler problem in action angle variable
10	4	Rigid Body Dynamics: Angular momentum – rotational kinetic energy and moment inertia of a rigid body
11	4	Euler's angle – moments and products of inertia
12	4	Eulers' equation – Motion of a symmetrical top under the action of gravity
13	5	Relativistic Mechanics: Principle of Relativity-Relativistic Kinetic Energy
14	5	Lorentz transformations – Lorentz transformations in real four dimensional spaces – covariant four dimensional formulations
15	5	Force and energy equations in relativistic mechanics – Lagrangian and Hamiltonian formulation of relativistic mechanics

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ELAYA KUMAR K	Academic Year	2022-2023
Department	Physics	Semester	2
Subject	PPH22A : MATHEMATICAL PHYSICS - II	Course	Physics

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Tensors, Tensors Under Generalized Coordinate Transformations
2	1	Definition of tensor; rank, symmetric tensors, contraction, quotient rule
3	1	Tensors with zero components, tensor equations, metric tensors and their determinants; pseudo tensors; transformation of $e_{ijk}/(g)^{1/2}$
4	2	Group Theory: Definition of groups, subgroups and conjugate classes, Symmetry elements, Transformation, Matrix representation
5	2	Point groups, representation of a group, Reducible and irreducible representations, Orthogonality theorem, character of a representation, character Table $C_{2v}$ and $C_{3v}$
6	2	Application to IR and Raman active vibrations of $XY_3$ molecules, Symmetry rotations $SO(2)$ and $SO(3)$ groups, Symmetry Unitary $SU(2)$ and $SU(3)$
7	3	Partial Differential Equation: Formation of Partial differential equations, elimination of arbitrary constants, elimination of arbitrary functions



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Singular integral, General integral, Standard types of first order equations
9	3	Linear Partial Differential equation of Second and higher order with constant coefficients. One dimensional wave equations, heat equation
10	4	Special Functions: Gamma and beta functions
11	4	Legendre, Bessel, Hermite and Laguerre equations
12	4	Generating functions, Series solutions and recurrence relations for Legendre, Bessel, Hermite and Laguerre equations, Physical applications.
13	5	Probability and Statistics: Events, Sample Space, Mathematical and Statistical definitions of Probability
14	5	Random variables, Distribution function, Discrete random variable, Continuous random variable, Continuous distribution function
15	5	Mathematical expectation and variance, Poisson distribution, Normal distribution, Properties of normal distribution, Mean, Median, Mode.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>1</b>
Subject	<b>PPH13A : ELECTROMAGNETIC THEORY</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Electrostatics: Laplace and Poisson equations
2	1	Laplace equation in three dimensions
3	1	Boundary conditions
4	2	Magnetostatics: Biot-Savart Law - Ampere's circuital law
5	2	Magnetic moment, force and torque on a current distribution in an external field
6	2	Boundary conditions - Uniformly magnetized sphere
7	3	Maxwell Equations: Faraday's laws of Induction

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	free space and linear isotropic media - Vector and scalar potentials
9	3	Poynting's theorem - Lorentz force - Conservation laws
10	4	Electromagnetic Waves: Plane waves in non-conducting media
11	4	Fresnel's law, interference, coherence and diffraction
12	4	Propagation of waves in a rectangular wave guide
13	5	Relativistic Electrodynamics: Four vector
14	5	Lorentz transformation of space and time in four vector form.
15	5	Transformation of electromagnetic potentials - Maxwell's equation in covariant tensor form

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SEBASTIAN S Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Physics</b>	Semester	<b>3</b>
Subject	<b>18EPPH35 : COMMUNICATION PHYSICS</b>	Course	<b>Physics</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	FM Transmission: Frequency modulation – FM radio frequency band – Direct frequency modulation – modulation index – FM wave equation
2	1	Bandwidth – deviation ratio – voltage distribution – power – reactance modulation – FM radio receiver (Block diagram)
3	1	SSB Transmission – Advantages and disadvantages – Balanced Modulators – Separation of sidebands – Filter method – the phase shift method – ISB – ISB receiver.
4	2	Digital Modulation, Multiplexing And Satellite Communication: Digital Modulation – codes – Data forms – Transmission modes between stations
5	2	Modems – Pulse amplitude modulation – Time division multiplexing – pulse width modulation – pulse position modulation, frequency division multiplexing
6	2	satellite communication – Geostationary satellites – Communication satellites – satellite subsystems – Earth stations – domestic satellites.
7	3	Telephone System And Modern Communication System: Telephony – Telephone Instruments – Telephone transmitter and receiver – Electronic telephone – Dialler – Ringer

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Transmission bridges – Telephone relays – Local Battery exchanges and central battery exchange – Automatic telephony
9	3	crowbar exchange – cross bar switch and exchange – electronic telephone exchanges – SLIC – advantages and disadvantages of digital transmission – FACSIMILE and cellular radio systems.
10	4	Television: Television transmission – television pictures and cameras – Interlaced scanning and picture resolution – Tonal and colour characteristics of pictures
11	4	composite B & W and colour video signals – colour TV transmitter – Television reception – colour receiver plan – Electronic tuner
12	4	IF subsystem – receiver sound system – Y signal channel – chroma decoder – Raster circuits – EHT generation – receiver picture tubes – remote control of receiver functions.
13	5	Fiber Optic Communication: Fiber materials – glass fibers – plastic clad glass fiber – plastic fibers – fiber optic communications – propagation theory
14	5	numerical aperture – classification of optical fibers – scalar wave equation and solution to step index fiber
15	5	loss mechanism in optical fibers – signal distortion due to dispersion – amount of dispersion in a step index fiber.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. J. Durai Raj</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>2</b>
Subject	<b>21PSW23 : SOCIAL POLICY AND SOCIAL LEGISLATIONS</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Social Policy: Meaning, Scope, Objectives and Types.
2	1	Indian Constitution: Sources, Historical Development, Fundamental Rights
3	1	Fundamental Duties and Directive principles of State Policy
4	2	Education, Health, and Housing Policies and Programmes in India
5	2	Environment, Employment, Family, and Child Policies and Programmes in India
6	2	Women, Elderly, Disabled and Backward Classes policies and programmes & Nithi Aayog.
7	3	Social Legislation: Meaning and Scope, Social Legislations in India



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Indian Penal Code, Family Courts, LokAdalat
9	3	Free Legal Aid, Public Interest Litigation
10	4	The Special Marriage Act 1955, Dowry Prohibition Act 1961, Hindu Adoption and Maintenance Act 1956
11	4	Juvenile Justice (Care and Protection of Child) Act 2015, Child Labour Abolition (Prohibition and Regulation) Amendment Act 2016, Bonded Labour Abolition Act 1976,
12	4	Protection of Civil Rights Act 1955, Protection of Consumer Act 1986, Right to Information Act 2005
13	5	Prevention of Immoral Traffic Act 1986, 2014 Amendment of Transplantation of Human Organs Act 1994, Tamil Nadu Prohibition of Eve Teasing Act 1988, Tamil Nadu Prohibition of Ragging Act 1998
14	5	Domestic Violence Act 2005, Mahatma Gandhi National Rural Employment Guarantee Act 2005, Right to Education 2009, Protection of Children from Sexual Offences (POCSO) Act 2012
15	5	The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013, Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Amendment Act, 2015

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. S. Vanathi</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>1</b>
Subject	<b>EPSW15A : PSYCHOLOGY FOR SOCIAL WORKERS</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Psychology: Meaning. Definition, Fields, Methods .
2	1	Schools of Psychology. Psychological Approach to understand Human Behaviour. Introduction to Human Growth and Development,
3	1	Developmental Stages, Developmental Tasks. Psychological Processes in Behaviour: Needs and Motives. Cognition, Memory,
4	2	Intelligence: Concept, theories and assessment - Motivation: Meaning, definition, types and characteristics of motives,
5	2	theories of motivation- Personality: Meaning, Definition, types and factors influencing Personality and structure. Theories of Personality.
6	3	The Beginning of life: Human Reproductive System: Fertilization, Delivery, Pre and Postnatal Care.
7	3	Developmental Periods and Challenges: Infancy, Babyhood. Childhood, Puberty Adolescence,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Adulthood, Middle Age and Old Age; Physical Intellectual Emotional and Social Development.
9	4	Perception, Measurement of Intelligence, Self Esteem, Self-Efficacy, Self-Awareness
10	4	through SWOT Analysis, Johari Window, Attitude, Positive Attitude, Adjustment and Maladjustment,
11	4	Stress, Frustration, Conflict, Responsible Sexual Behavior, Motivation, learning, instincts and Mental Health.
12	5	Abnormal Psychology: Concepts of Normality and Abnormality. Causation of Mental Illness,
13	5	Neuroses, Psychoses, Classification of Psychological Disorders. Defense Mechanism, Developmental Disorders,
14	5	Anxiety related Disorders, Conduct Disorders, Epilepsy, Learning Disabilities, Scholastic related Problems. Personality Disorders, Suicidal Tendencies. Rehabilitation.
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. M. Perkish Salomina</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>1</b>
Subject	<b>19PSW12 : SOCIAL CASE WORK</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Case Work: Meaning, Definition, Historical Development; Scope and limitations.
2	1	Social Case Work importance and Relationship with other methods of Social Work.
3	1	Values - Worth and Dignity of Clients; Basic components of Social Work – Person, Problem, Place and Process and Principles of Social Case Work.
4	2	Case worker-client Relationship: Meaning and its importance. Characteristics of Professional relationship: empathy, Sympathy.
5	2	Transference, Counter Transference, Resistance, Sustaining the relationship, Genuineness, Unconditional Positive regard and Self Disclosure.
6	3	Case Work Process: Intake and Exploration: Analysis and assessment – Psychosocial Diagnosis
7	3	Formulation of goals, Prioritization of Needs, Development of Action Plan, Use of Contracts;

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Intervention: Counseling and use of Supportive and Reflective Techniques of Direct Influence; Importance of involvement Collateral Contacts in the entire Process.
9	3	Student Seminar in social case work process and case worker client's relationship.
10	4	Approaches to practice: Psychosocial, Functional, Problem Solving, Crisis intervention; Eclectic Model for Practice.
11	4	Case work Interviewing: Principles, Techniques and Skills.
12	4	Casework Recording: Types of Records, Record Maintenance. Recent Techniques in Social Case Work Practice: Indigenous Social Case Work practices.
13	5	Practice of Social Casework: Role and functions of Social caseworker in various settings- Medical and Psychiatric Setting - Health Care Centers, Mental Health - De-Addiction & Community Based Rehabilitation,
14	5	Family and Child Welfare, Educational Setting, Correctional Setting - Homes or Special Schools for delinquents, Observation Homes, Prisons, Corporate Setting, Community Welfare setting. Palliative & Geriatric Care.
15	5	assignment submission and revision for all the units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. M. Perkish Salomina</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>1</b>
Subject	<b>19PSW14 : COMMUNITY ORGANIZATION AND SOCIAL ACTION</b>	Course	<b>SOCIAL WORK</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction about the basic concepts. Assessment of community using PRA.
2	3	Assessment of community using PRA its methods
3	3	Phases of Community Organization
4	3	Study, Assessment, Discussion, Organization, Action, Evaluation, Modification, Continuation; Community study
5	3	Community Organization in emergencies like Fire, Famine, Flood, Drought, Earthquake and War
6	3	Community Organization at Local, State and National level; Community organization in Rural, Urban, Slum and Tribal Areas.
7	3	Student seminar - Community Organization at Local, State and National level; Community organization in Rural, Urban, Slum and Tribal Areas.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Social Action: Definition, Objectives, Principles
9	4	Approaches, Methods and Strategies
10	4	Social Action as Method of Social Work; Social work and Social action
11	4	Roles and Responsibilities of Social Activist.
12	4	Process of Social Action
13	4	Scope for Social Action in India
14	4	Assignments Submission
15	4	Revision of all units

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SANTHANARAJ L Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>3</b>
Subject	<b>ECHR901T : HUMAN RIGHTS</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	To Learn the Emergence of Human Rights - Historical Development.
2	1	Origin - Meaning – Nature – Scope and Classification of Human Rights.
3	1	Theories of Human Rights.
4	2	To Study the various Declaration on Human Rights. Universal Declaration of Human Rights -1948
5	2	Geneva Convention of 1949 - International Human Rights in Domestic Court.
6	3	International Covenant on Civil and Political Rights 1966.
7	3	International Covenant on Economic, Social and Cultural Rights.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	International Covenant Supervision and Punishment of the Crime of Apartheid.
9	4	Women's Rights - Women Conference - CEDAW.
10	4	Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India.
11	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
12	4	Child Labour - Legislation to Protect Child Labour in India – Child Abuse.
13	5	The Protection of Human Rights Act. 1993 – National Human Rights Commission
14	5	State Human Rights Commission – Minorities Rights Commission
15	5	National Commission for Women.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. J. Durai Raj</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>4</b>
Subject	<b>19PSW41A : PROJECT MANAGEMENT</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Planning: Meaning, Process, Reasons, Usefulness, Types, Barriers, Importance. Development Cycle in Planning – Existing Development Cycle and Desired Development cycle.
2	1	Project Cycle – Meaning, Phases – Identification, Design, Implementation, Evaluation.
3	1	Project Cycle Management – Meaning and the Importance. Concept Note – Meaning, Outline.
4	2	Project Identification – Need Assessment, Tools for Need Assessment – Listening, Interviewing, Focus Groups
5	2	Community Mapping, Priority Fixing. Capacity Assessment – Meaning
6	2	Types of Assets in Capacity Assessment. Assets and Capacity. Appreciative Inquiry – Discover, Dream, Design and Deliver.
7	3	Project design – Meaning. Process of Project Designing – Stakeholder Analysis, Research including Problem Analysis

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Log Frame, Risk Analysis, Action Planning, Budgeting. Implementation – Meaning, Phases, Factors Affecting the Implementation.
9	3	Monitoring Reviewing and Evaluation – Meaning, Purposes, Differences, Indicators, Reporting
10	4	Corporate Social Responsibility – Meaning, Importance, Theory and Models of CSR.
11	4	Social Auditing – Meaning, Uses, Principles, Stages – Social Book Keeping, Social Accounting and Social Auditing. Methodology and Process of Social Auditing.
12	5	Advocacy: Meaning, Approach, Role and Practice
13	5	National & International Funding Agencies
14	5	State and Central Government Projects; Project Proposal Writing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. S. Vanathi</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>3</b>
Subject	<b>19EPS33A : COMPUTER APPLICATION IN SOCIAL WORK</b>	Course	<b>SOCIAL WORK</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fundamentals of a Computer: Meaning, Characteristics,
2	1	basic operations – input, storage, processing, output, ALU and control.
3	1	Devices of a computer hard ware, software, types of software
4	1	application, system, utility. Meaning of programme.
5	1	Computer language – machine, assembly high level.
6	1	Assembler, interpreter and compiler, operating system.
7	5	Analysis of data: Univariate and Bivariate Analysis, .

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	charts and diagrams. Editing of table and charts, exporting tables and charts in Word document
9	5	Interpretation of data, Application of Statistical Calculation
10	5	Test, Measurement of Central Tendency,
11	5	Dispersion, 't' test, Chi-square Test.
12	5	Application of Correlation, Regression. ANOVA.
13	5	Practical – Creating frequency table, Cross tables,
14	5	Charts, Statistical tests – Chi square test,t test.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VANATHAIYAN M Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Kapiyangal - imperum Kapiyangal
2	4	Kapiyangal - Inchiru Kapiyangal
3	4	Kapiyangal - Iratai Kapiyangal
4	1	Silapathigaram - Kundra Kuravai
5	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
6	1	Manimagalai - Uthaya Kumaranai Kanjanan Valal Erantha Kaathai
7	2	Seevaga Sinthamani - Namagal Ilambagam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savaimaiya Aluvalar Surtula Vazikati Kadithangal Pothukaturai
9	4	PiraKapiyangal
10	2	Kambaramayanam - Kaigayi Soozvinai Padalam
11	4	Kiruthuva Kapiyangal
12	4	Isulam Kapiyangal
13	3	PeriyaPuranam - Ilayankudi Mara Nayanar Puranam
14	3	Thambavani - Sathaiyon Vetripadalam
15	3	Seerapuranam - Nubuvathukandam - Kaamappadalam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VANATHAIYAN M Dr.	Academic Year	2022-2023
Department	Zoology	Semester	4
Subject	LT404A : TAMIL - IV	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Ilakiavaralaru - Etuthogai
2	1	Purananooru - 184, 204 Agananooru - 219, 351
3	1	Kurunthogai - 20, 210 Nartina - 21, 86
4	1	Ingurunooru - Annai Pathu 1 - 5 Kalithogai - Kuringikali - 5
5	1	Paripadel - Vaiyai Patham Padal
6	4	Ilakiyavaralaru - Keezkanaku Noolgalil Neethi Noolgal
7	3	Thirukural Arathupal - Virunthombal Porutpal - Kalaamai



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukural Porutpal - Kalaamai Inbathupal - Kuriparithal
9	4	Ilakiyavaralaru Pathupattu
10	2	Sirupanartupadai (111, 145, 235, 261) Naliyakodan Sirapu
11	2	Mullaipatu 26, 79
12	2	Madhurai Kangi 238 - 270
13	2	Patinapallai 1 - 59
14	2	Patinapallai 1 - 59
15	5	Mozithiran - Pathirikaigalil Saithi Varaithal Surikivaraithal Naarganal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>19ZO408 : BIOTECHNOLOGY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition – Scope and applications of Biotechnology
2	1	Isolation of DNA – types of DNA extraction methods – cloning.
3	1	Tools of Genetic Engineering: Enzymes, Linkers and Adaptors.
4	2	Cloning vectors: requirements of a cloning vector,
5	2	Cloning vectors- types [plasmids, pBr322, Phage I, Cosmids and phagemids].
6	2	Techniques of Genetic Engineering - recombinant DNA Technology.
7	3	Gene Cloning in prokaryotes, cDNA- Genomic Library, construction and uses.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Human genome project: Genome and its significance.
9	3	Techniques of Human Genome Project, Potential benefits of Human genome projects .
10	4	Transgenic plants and animals – Production of Transgenic plant (Bt. Cotton) and transgenic animal (mice).
11	4	Applications of Transgenic animals. .DNA finger printing and its applications– gene therapy.
12	4	Biosensors and its applications – biochips and its applications .
13	5	Application of Recombinant DNA technology in Medicine and Agriculture.
14	5	Application of biotechnology in environmental protection .
15	5	Socio economic issues of Biotechnology in India.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SANGA ILLKKIYAM - ETTUTHOGAI NOOLGALIL..., PURANANOORU 184, 204 AGANANOORU 219, 351
2	1	KURUNTHOGAI 20, 210 NATTRENAI 21,86
3	1	IYNGURUNOORU ANNAI VAZHI PATHU 1-5 PADALGAL KALITHOGAIYIL KURUNGHICALI 5 PADALGAL
4	4	ILLKKIYA VARALARU- ETTUTHOGAI NOOLGAL PATHINENKZHKKANAKIL NEETHI NOOLGAL
5	3	THIRUKKURALIL 3 ATHIGARANGAL ARATHUPPALIL VIRUNTHOMBAL PORUTPPALIL KALLAMAI INNBATHUPPALIL KURIPPARETHAL
6	1	ETTUTHOGAYIL PAREPADAL VAIYAI PADAL-10, 71- 131VAREGAL
7	4	ILLKKIYA VARALARU- PATHINENKZHKKANAKIL NEETHI NOOLGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	PATHUPPATTU NOOLGALIL..., SIRUPANNATTUPADAI 111-145 ,235-261 VAREGAL
9	2	MULLAIPPATTU - 26-79 VAREGAL NAALLIYAKKODAN SIRAPPU
10	5	MOZHITHIRAN PATHIREGAIGALIL SEITHI VARAITHAL SURUKKI VARAITHAL
11	2	MADURAI KAANGHI 238- 270 VAREGAL THAMIZH NILATHIL AMAINTHA 5 NILAPPAGUTHIGALIN PANBUM VALAMUM
12	2	PATTINAPPALAIYIL 1-59 VAREGAL KAAVIREPOOMPATTINATHIN SIRAPPUGAL
13	5	MOZHITHIRANIL..., NEERKKAANAL
14	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL
15	4	ILLAKKIYA VARALARU PATHUPPATTU NOOLGAL

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Aimperum kappiyangal
2	4	Aimsiru kappiyangal
3	4	Irattai kappiyam
4	1	Silapathikaram-kunrakkuravai.
5	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(1-60).
6	1	Manimegalai-Udeyakumarnai kanchanan vahlal vertha kadhai(61-129).
7	2	Seevagasinthamani-Naamagal Ilambagam.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Panpalai vaanoli nigazhahi thoguppu, vadikaiyalar sevai maiya aluvalar, sutrula vazegate,kadithangal,pothu katturai.
9	4	Pira kappiyangal
10	2	Kambaramayanam-kaikayi suzhvinai padalam.
11	4	Christava kappiyangal.
12	4	Islam kappiyangal.
13	3	Periyapuramam-Ilayankudi mara nayanar.
14	3	Thembavani-Sethayan vetri padalam.
15	3	Seerapuramam-kama padalam.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. T. Shalini</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock Interviews/Actual Interviews Facing and Interview Tele-Interviews
2	1	Julius Caesar The Count of Monte Cristo Description
3	2	Words often used Seminar Skills Macbeth
4	2	The Count of Monte Cristo Idioms and Phrases
5	3	Homonyms and Similar Sounds Tele-Conferences Handling Customers or Clients Receiving Visitors Henry IV
6	3	Henry IV The Count of Monte Cristo The use of Graphics
7	0	I CIA



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making Small Talk and Telling Stories
9	4	Patterns of Love - As You Like It The Count of Monte Cristo
10	4	The Count of Monte Cristo Negotiations
11	5	Group Discussions Making Appointments Cancelling and Rescheduling Appointments
12	5	Hamlet The Count of Monte Cristo
13	5	The Count of Monte Cristo Writing Review of Books
14	0	Revision
15	0	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUMITHA D Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>19AMB404 : ALLIED MICROBIOLOGY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction - History and scope of Microbiology - Shape and Size of bacterial cells
2	1	-Structure of bacterial cell -Structure and functions of cell organelles
3	1	Cell wall, structures found outside the cell wall and within the cell wall) - Structure of Endospore
4	2	Microscopy - Simple, Compound, Dark field, Phase contrast, Fluorescent
5	2	Fluorescent, Electron Microscopes - Staining – Classification Microorganisms - Haeckel's, Whitaker's - Prokaryotes and eukaryotes
6	2	- Taxonomical ranks - Binomial Nomenclature - Characteristics used in Taxonomy
7	3	Sterilization - Physical agents - Moist heat, Dry heat, Radiation, Filtration

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Chemical agents - Phenols and phenolic compounds, Alcohols, Gaseous agents
9	3	Antibiotics – Classification, Mode of action - Antifungal and antiviral agents – examples
10	4	Motility of bacteria - Nutrient requirements of microorganisms - Growth factors - Nutritional types
11	4	- Culture media - Pure culture - Microbial growth - Growth curve
12	4	- Measurement of microbial growth - Continuous culture - Environmental factors affecting growth - Bacterial reproduction
13	5	Brief description of important groups of bacteria - Archaeobacteria, Spirochetes, Mycoplasma
14	5	Actinomycetes, Photosynthetic bacteria, Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria
15	5	General characteristics of Algae, Fungi, Protozoa and viruses - Human diseases and the pathogen involved – Role of microorganisms in the environment

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRAKASH A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>NZOFC401 : ORNAMENTAL FISH CULTURE</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	The potential scope of Ornamental fish culture as a Cottage Industry.
2	1	Exotic and Endemic species of Aquarium Fishes.
3	1	Exotic and Endemic species of Aquarium Fishes.
4	2	Common characters and sexual dimorphism of Fresh water and
5	2	Marine Ornamental fishes such as Guppy, Molly, Sword tail, Gold fish, Angel Fish, Blue Morph,
6	2	Anemone fish and Butterfly fish.
7	3	Food and feeding of Ornamental fishes

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	use of live fish feed organisms. Preparation and composition of formulated fish feeds.
9	3	Preparation and composition of formulated fish feeds.
10	4	Live fish transport – Fish handling, packing and forwarding techniques.
11	4	Fish handling, packing
12	4	packing and forwarding techniques.
13	5	General Aquarium maintenance
14	5	budget for setting up an aquarium fish farm as a cottage industry.
15	5	budget for setting up an aquarium fish farm as a cottage industry.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Zoology</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>NZOFC401 : ORNAMENTAL FISH CULTURE</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT – I The potential scope of Ornamental fish culture as a Cottage Industry. Exotic and Endemic species of Aquarium Fishes.
2	1	Exotic and Endemic species of Aquarium Fishes.
3	1	Exotic and Endemic species of Aquarium Fishes.
4	2	UNIT – II Common characters and sexual dimorphism of Fresh water and Marine Ornamental fishes such as
5	2	Guppy, Molly, Sword tail, Gold fish, Angel Fish, Blue Morph,
6	2	Anemone fish and Butterfly fish.
7	3	UNIT – III Food and feeding of Ornamental fishes –



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	use of live fish feed organisms.
9	3	Preparation and composition of formulated fish feeds.
10	4	UNIT – IV Live fish transport – Fish handling, packing and forwarding techniques.
11	4	Live fish transport – Fish handling, packing and forwarding techniques.
12	4	Live fish transport – Fish handling, packing and forwarding techniques.
13	5	UNIT – V General Aquarium maintenance –
14	5	budget for setting up an aquarium fish farm as a cottage industry.
15	5	budget for setting up an aquarium fish farm as a cottage industry.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Zoology	Semester	3
Subject	19ZO306 : MOLECULAR BIOLOGY	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Biochemical techniques – Electrophoresis – types of electrophoresis: Paper Electrophoresis, Agarose gel electrophoresis,
2	1	PAGE, SDS-PAGE, PFGE, 2D electrophoresis - applications of Electrophoresis.
3	1	Cell culture techniques and applications
4	2	Chromosomes: structure and function, Types of chromosome – Heterochromatin: structure, types and function,
5	2	Euchromatin: structure and function - Giant chromosomes: Polytene and Lamp brush chromosomes.
6	3	DNA: Structure - Watson and Crick Model of DNA – Chemical composition and functions of DNA.
7	3	RNA: Types - Structure and functions of Messenger RNA, Structure and functions of Transfer RNA,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Structure and functions of Ribosomal RNA
9	4	Cancer biology – structure of cancer cell, characteristics of cancer, properties of cancer cells,
10	4	Types of cancer, causes of cancer, carcinogenesis. Aging – theories of aging,
11	4	Cell death- Necrosis and Apoptosis
12	5	DNA replication – Types, Enzymology and Mechanism,
13	5	Semi conservative replication.
14	5	Protein synthesis: Mechanism-Transcription-
15	5	Translation-Post translation.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Zoology	Semester	4
Subject	19ZOP42 : CELL & MOLECULAR BIOLOGY GENETICS & BIOTECHNOLOGY	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Compound microscope, Camera Lucida, Stage and Ocular Micrometers, Columnar Epithelium, Ciliated epithelium, Glandular Epithelium. Cartilage T.S., Bone T.S.,
2	1	Blood Smear Preparation – Differential count of W.B.C. Cardiac Muscle, Striated muscle, Non Striated muscle, Neuron, C.S of mammalian Testis and Ovary.
3	1	Total count of RBC using Haemocytometer.
4	1	Total count of WBC using Haemocytometer.
5	1	Slide Preparation Buccal Smear.
6	1	Mitosis in onion root tip squash.
7	1	Squash preparation of Grass hopper testes.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Squash preparation of Salivary glands of chironomous larva (Giant chromosome).
9	1	Male & Female identification of Drosophila. Observation of common Mutants of Drosophila.
10	1	Human Blood Grouping.
11	1	Study of prepared slides, Models or specimen. Escherichia coli, Bacteriophage, Plasmid.
12	1	Demonstration of P.C.R technique:
13	1	Southern blot,
14	1	Electrophoresis.
15	1	Visit to Biotechnology lab

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Zoology	Semester	3
Subject	19ZOP42* : CELL & MOLECULAR BIOLOGY GENETICS & BIOTECHNOLOGY	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Compound microscope, Camera Lucida,
2	1	Stage and Ocular Micrometers
3	1	Differential count of W.B.C.
4	1	Total count of RBC using Haemocytometer.
5	1	Total count of WBC using Haemocytometer
6	1	Buccal Smear.
7	1	Mitosis in onion root tip squash.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Squash preparation of Grass hopper testes
9	1	Columnar Epithelium, Ciliated epithelium, Glandular Epithelium. Cartilage T.S., Bone T.S., Cardiac Muscle,
10	1	Striated muscle, Non Striated muscle, Neuron, C.S of mammalian Testis and Ovary.
11	1	Squash preparation of Salivary glands of chironomous larva (Giant chromosome).
12	1	Male & Female identification of Drosophila.
13	1	Observation of common Mutants of Drosophila.
14	1	Human Blood Grouping.
15	1	Escherichia coli, Bacteriophage, Plasmid. Demonstration of P.C.R technique: Southern blot, Electrophoresis.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage- food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers.
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids.
6	2	Types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India.
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards.
11	4	Solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion.
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>3</b>
Subject	<b>19ZO305 : CELL BIOLOGY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	History of Cell– Principles of microscopes: light and electron.
2	1	Cytological techniques - cell fractionation, Homogenization, Centrifugation.
3	1	Isolation of Sub-cellular components – Fixation- Sectioning- Staining .
4	2	Cell – Cell theory, Ultra structure of animal cell – structure, composition and functions.
5	2	cell components – Plasma Membrane-permeability, fluid mosaic theory, bilayer model, sandwich model
7	3	Cytoplasm – Physical, chemical and biological properties.
8	3	Nucleus – Ultrastructure, Composition and Function.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	nucleolus: structure, types and functions.
10	4	Ribosomes- structure and function, Golgi Complex- structure and function.
11	4	Lysosomes: structure and function -suicidal bag. Glyoxisomes, peroxisomes, centrioles
12	4	structure and function and Mitochondria- structure and function, cell respiration.
13	5	Cell cycle and cell division, Amitosis.
14	5	Mitosis- Prophase, metaphase, anaphase, telophase-
15	5	meiosis Prophase-leptotene, zygotene, pachytene, diplotene and diakinesis- metaphase, anaphase, telophase and their significance.
6	2	Endoplasmic reticulum- rough and smooth endoplasmic reticulum.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>19ZO407 : GENETICS</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to genetics – Basis of Mendelian Inheritance.
2	1	Mendelian Laws – mendel's experiment-monohybrid and dihybrid cross.
3	1	Interaction of Genes – Complementary Factors, Inhibitory and lethal Factors -Atavism.
4	2	Multiple Alleles – Blood Groups and their Inheritance in man.
5	2	ABO Blood group inheritance, Rh factor.
6	2	Pedigree analysis in human traits- uses of pedigree analysis.
7	3	Linkage-definition, types, linkage in Drosophila and Cytological Evidence for Crossing Over.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Crossing over -definition, types crossover Drosophila – Morgan’s Experiments -
9	3	Sex determination and sex linkage in Drosophila and Man.
10	4	Non – Disjunction and Gynandromorphs.
11	4	Cytoplasmic Inheritance Maternal effect on Limnaea [shell coiling].
12	4	Fine Structure of Gene – Cistron –Recon, Muton – Gene Regulation – Operon concept – Lac Operon.
13	5	Mutation – chromosomal Aberrations – examples from Human. Out Crossing, Hybrid Vigour.
14	5	Applied Genetics – Animal Breeding – Heterosis, Inbreeding, Out breeding.
15	5	Population Genetics: Hardy Weinberg Law – factors affecting Hardy Weinberg Law.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY SHAKKINA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>4</b>
Subject	<b>NCSWD401 : FUNDAMENTALS OF WEB DESIGNING</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic internet terms Internet Based Services How does the Internet work
2	1	Advantages of the Internet Server Types
3	1	Tools required for developing a website Web pages- Static, Dynamic web pages.
4	2	WWW Web Browsers Browser Types
5	2	Uniform Resource Locator URL search engines-
6	2	Protocols: Simple Mail Transfer Protocol, Hyper Text Transfer Protocol Emails.
7	3	Introduction to HTML Structure of HTML

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating an HTML document Heading Paragraphs
9	3	Line Breaks HTML Tags Advantages & disadvantages of HTML.
10	4	Basic web design principles Planning process
11	4	Types of website structure Five Golden rules of web designing
12	4	Designing navigation bar Home Page Layout.
13	5	Introduction to E-Commerce Scope of E-Commerce
14	5	Types of E-Commerce E-Commerce Framework
15	5	Technologies of E-Commerce Applications of E-Commerce Limitations of E-Commerce

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>5</b>
Subject	<b>20EZ512A : APPLIED ENTOMOLOGY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
2	1	Types of pests – types of damage caused by pests in crops.
3	1	causes for insects assuming pest status – outbreak of pests.
4	2	Types of insect development – ametabola and metabola (hemi metabola, holometabola, paurometabola and hypermetabola)
5	2	Pests of agricultural importance, their bionomics, life cycle and control measures of paddy, ground nut,
6	2	Pests of agricultural importance, their bionomics, life cycle and control measures of cotton, tomato, coffee & Banana.
7	3	Pests of stored products and their control – Household pests – cockroach and termites – and their control.
8	3	pest in relation to public health – rodents and their control.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Mosquitoe borne diseases and their control measures.
10	4	Pest control methods and application: cultural, mechanical, biological and chemical methods
11	4	Classification of pesticides – LC 50 and LD 50 values.
12	4	First Aid & precautions in handling pesticides – pesticide spraying appliances.
13	5	Pesticide industry - production and marketing – recent trends in pest control –
14	5	Pheromones, attractants, repellants and chemosterilants .
15	5	Integrated pest management, its importance & applications.
1	1	Introduction to Entomology.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>6</b>
Subject	<b>20ZO616 : EVOLUTION</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Evidences for Evolution: The need of evidences for the fact of evolution.
2	1	Morphological evidences, anatomical evidences, Embryological evidences.
3	1	Physiological evidences and Biochemical evidences.
4	2	Theories of Evolution: Lamarckism- principles and criticism, Neo-lamarckism,
5	2	Darwinism- principles and criticism, Neo-Darwinism,
6	2	De vries concept of Mutation. Modern version of Mutation theory.
7	3	Natural selection: Types, stabilizing selection, diversifying selection and directional selection.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Variation: Types of variation,
9	3	Factors causing variation.
10	4	Mimicry – types of mimicry - mimicry and evolution.
11	4	Batesian mimicry and Mullerian mimicry and evolution, Fossils – Fossilization - living fossils.
12	4	Distribution of animals: methods, classification and patterns of distribution.
13	5	Isolation – Premating and post mating isolating mechanism, speciation – role of isolation in speciation.
14	5	Evolution of man –Biological evolution of man.
15	5	Fossils of human evolution -cultural evolution of man.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>5</b>
Subject	<b>20ZOP63* : PRACTICAL-III BIO.STAT,ANI.PHYSIOLOG Y,DEVELP.BIO&amp; IMMUNOLOGY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	BIOSTATISTICS: Biological data – calculation of mean,
2	1	median, mode,
3	1	Mean and standard deviation.
4	1	Graphical representation – Bar, Pie, frequency distribution.
5	1	Demonstration of MS- word, MS-Excel and MS-PPT.
6	2	ANIMAL PHYSIOLOGY: Activity of human salivary amylase in relation to PH, Enzyme concentration and Temperature.
7	2	Estimation of Oxygen consumption in a fish with reference to body weight.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Detection of nitrogenous waste products in fish tank water, frog tank water, bird excreta and mammalian urine. Use of Kymograph Unit, B.P. apparatus, stethoscope.
9	2	DEVELOPMENT BIOLOGY: Study of the following prepared slides / museum specimens. Section of testis and Ovary [ Mammalian]. Slides of Mammalian sperm and ovum. Study of Egg types – Frog’s Egg, Hen’s Egg. Study of cleavage stages 2 Cell, 4Cell, 8Cel...
10	2	Slides of different stages of chick embryo –24 hours, 33 hours,48 hours
11	2	72 hours and 96 hours.
12	2	Placenta of Sheep, Pig and Man.
13	3	IMMUNOLOGY: Study of Antigen – Antibody reaction
14	3	– Human Blood grouping [ABO and Rh].
15	3	Study of prepared slides of histology: Thymus, Spleen, Bone marrow, Lymph node.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Zoology	Semester	5
Subject	20ZO511 : ANIMAL PHYSIOLOGY	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction– Food requirements – Carbohydrates,
2	1	proteins, fats, minerals, and vitamins. Digestive enzymes and their role in digestion
3	1	absorption and assimilation.
4	2	Introduction – Respiratory Pigments and functions. Transport of gases [Co <sub>2</sub> and O <sub>2</sub> ] – Respiratory quotient. Circulation Types,
5	2	Composition, Properties and Function of Blood – Human – Cardiac Cycle – Cardiac Rhythm – Origin of heart Beat – Regulation of heart Beat
6	2	ECG – Blood Pressure – Factors Contributing to heart Problems – coronary circulation.
7	3	Introduction – kinds of excretory products – Kidney - structure

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Mechanism of urine formation in mammals, hormonal regulation of excretion. Kidney failure and Transplantation.
9	3	Osmoionoregulation in fishes and mammals.
10	4	Nervous tissue – Neuron – Structure, types of neurons. Nerve impulse – Synapse – Synaptic transmission of impulses
11	4	Neurotransmitters. Muscles – Types of muscles
12	4	Muscle Proteins – Mechanism of contraction – Cori cycle – Theories of muscle contraction.
13	5	Receptors – Photoreceptor – mammalian eye –structure of retina – visual pigments – physiology of vision – phonoreceptors – mammalian ear
14	5	Organ of Corti – working mechanism – phonoreception in bat. Endocrine glands – structure, secretions and functions of endocrine glands of vertebrates.
15	5	Pituitary, Hypothalamus, Thyroid, Parathyroid, Adrenal, Thymus, Islets of langerhans, Testis and Ovary.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Zoology	Semester	6
Subject	20ZO615 : ECONOMIC ZOOLOGY	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Vermiculture: Composting of Earthworms-Methods of composting.
2	1	Apiculture - Species of Honeybees –Construction of Apiary- Honey extraction – Economics of Apiculture and management.
3	1	Sericulture – Nature and economic importance of sericulture in India.
4	2	Prawn culture – Culture techniques of fresh water [Macrobrachium rosenbergii] & Marine water (Penaeus monodon)
5	2	Pearl culture: Formation and nature of Pearls – Commercial importance of Pearl Culture in India.
6	2	Pisciculture– Techniques of induced breeding, commercial culture of catla & catfish, By–products of fishing and its commercial values.
7	3	Poultry- Morphology of different breeds of Chicken



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Brooding and Rearing of Chicks
9	3	Processing of Egg, Meat and By-Products of Poultry.
10	4	Dairy farm - management, Milch breeds. Draught Breeds,
11	4	Dual Purpose breeds and New cross Breeds of Cows and Buffaloes in India.
12	4	Sheep farm: Indigenous and Exotic breeds of sheep, management
13	5	Future strategies for Livestock Development
14	5	– Transgenic animal Technology – Genetic Improvement for best Breeds
15	5	Economic importance of Dairy, Leather, Wool, Fur and Pharmaceutical Industries in India.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUL PRAKASH A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>5</b>
Subject	<b>20ZOP64* : PRACTICAL-IV ENVIRONMENTAL BIOLOGY,ECONOMIC ZOOLOGY &amp; EVOLUTION</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Estimation of Dissolved oxygen, salinity, pH, Free CO <sub>2</sub> , Carbonate and Bicarbonates in water samples.
2	1	Use of rain gauge, Maximum and Minimum thermometer, Hygrometer and Anemometer.
3	1	Plankton study – fresh water and Marine plankton. Study of natural ecosystem and field report.
4	2	ECONOMIC ZOOLOGY: Study of the following prepared slides / specimens. Earthworm types [any two] – [vermiculture].
5	2	Megacolexmaurittii – south Indian species – surface crawlers. Drawidamodesta – Redsoil with calciferous gland.
6	2	Pheretimaposthuma – North Indian – Large specimen. Eudriluseugenia – Redworm, Exotic.
7	3	Fish parasites [Lernea, Argulus]. Larvivorousfishes :

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Poecelia reticulate – Guppy. Gambusia Affinis – Gambusi.
9	3	Colisa labia – Dwarf gowrami. Different stage of Silk worm.
10	4	Types of Honey Bees. Common Pests.
11	4	Fossils – ammonite. Living fossils – Limulus, sphenodon.
12	4	Conneting link – peripatus, archaeopteryx. Evolutionary significance – exocoetus, draco, hippocampus. Mimicry – monarch butterfly.
13	5	Conneting link – peripatus, archaeopteryx.
14	5	Evolutionary significance – exocoetus, draco, hippocampus.
15	5	Mimicry – monarch butterfly.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRIYA N Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>6</b>
Subject	<b>20EZ618A : BIOINSTRUMENTATION</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Paper Chromatography
2	2	Column Chromatography
3	2	Thin layer Chromatography
4	2	High Pressure Liquid Chromatography
5	2	Gas Liquid Chromatography
6	2	Revision for Ist CIA
7	2	Revision for 1st ICIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	Spectrophotometer principle and its working
9	5	UV Visible spectroscopy principle and its working
10	5	Fluorescence spectrophotometry principle and its working
11	5	Mass spectrophotometry
12	2	Revision
13	2	Revision
14	5	Revision
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Zoology</b>	Semester	<b>6</b>
Subject	<b>20ZO614 : ENVIRONMENTAL BIOLOGY</b>	Course	<b>Zoology</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT – I Scope – concept – Branches in ecology – Autecology, synecology - types of media and substratum and their influences on animals
2	1	Water: Properties, Forms of water, Soft and hard water. Air composition
3	1	properties.Substratum: Soil -Types, soil formation, soil group of India, soil profile.
4	2	UNIT – II Biosphere – Hydrosphere – Lithosphere – Atmosphere – temperature: Distribution of temperature, thermal stratification
5	2	Temperature as a limiting factor, thermal adaptations. Light as a limiting factor.
6	2	Ecosystem-concept, components, types, structure and functions.
7	3	UNIT – III Biogeochemical cycles – gaseous cycle [C,N <sub>2</sub> & S] sedimentary cycle, [phosphates]. Animal association -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Intra specific and inter specific - colony formation, social organization, predation, parasitism,
9	3	Commensalisms, mutualism, inter specific competition – competitive principle or Gause’s principle.
10	4	UNIT – IV Population: Definition – characteristics – Natality, Mortality, age distribution of Population growth forms, population fluctuation. Community Ecotone and edge effects –
11	4	ecological succession. Conservation - Wild life management, Preservation – laws enforced – sanctuaries, National parks.
12	4	Natural resources management: renewable and non-renewable.
13	5	UNIT – V Environmental degradation – deforestation, urbanization, population explosion
14	5	environmental hazards – Environmental ethics and laws
15	5	Earth summits – role of governmental agencies for environmental monitoring.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Zoology	Semester	5
Subject	20ZO509 : Biostatistics and computational Biology	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition and Scope, Census and sampling methods – collection and presentation of data.
2	1	Diagrams and graphs; bar, pie, Histogram, Line graph – concept of Statistical population and sample characteristics of frequency distribution.
3	2	Measures of central tendency: mean, median and mode.
4	2	Measures of Dispersion, Range, Quartile deviation, mean deviation
5	2	Standard deviation. Test of significance - Student's 't'- Test
6	3	Introduction – computer – types of modern computers – operating systems –
7	3	Applications of MS-WORD, MS-EXCEL and MS-PPT- Documentation and Presentation of Bio Statistical data



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Browsers – search engines - Use of Internet, Messenger and E-mail – Basic Knowledge of Medical transcription
9	4	Biological databases – definition – Literature databases- NCBI – Pubmed, Medline,
10	4	Protein and Nucleic acid Sequence, databases and their relationship – PIR, Swiss – Prot, GenBank, DDBJ
11	4	Structural Databases – PDB, SCOP, CATH, Structural visualization tools, RasMol, Swiss PDB viewer
12	5	DNA and RNA sequencing
13	5	Pairwise sequence Alignment –Scoring Matrices - PAM and BLOSUM
14	5	Statistics of alignment scored Dot Plot – local and global alignment – Database searching – FASTA and BLAST
15	5	Multiple sequence alignment clustal W- Phylogenetic Tress – PHYLIP

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Zoology	Semester	6
Subject	20EZ617A : AQUACULTURE	Course	Zoology

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, objectives and scope of aquaculture –
2	1	Principles of site selection for fish farms, Factors for site selection: Ecological - water, soil types and other parameters,
3	1	Biological factors, Socioeconomic factor, Political and legal factors.
4	2	Types of aquaculture - Monoculture, Poly culture, Integrated farming- Fish cum Duck, Fish cum Poultry, Fish cum Dairy and Paddy cum Fish,
5	2	Pond culture, Pen culture, Cage culture, Raft culture,
6	2	Race way culture, Warm and cold water fish culture
7	3	Criteria for selection of variety – Seed procurement: Inn natural habitat, Bundh breeding and induced breeding-

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	stocking management: Pre stocking and stocking. Water quality management.
9	4	Nutritional requirements and formulation of artificial diets.
10	4	breeding and culture of fresh water fishes – Catla, Mrigala and Rohu.
11	4	Tilapia culture – monosex culture, procurement of male seed for monosex culture
12	5	Mari culture – Culture of edible oyster: spat collection methods, culture methods -
13	5	pearl oyster culture, mussel culture,
14	5	clam culture, sea urchin culture,
15	5	sea cucumber culture – artificial breeding technique of sea cucumber

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. M. Arumai Selvam</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs based on C++
2	1	C++ programs based on command line arguments
3	1	C++ programs based on operators
4	2	C++ programs based on data types- C++ program to print Fibonacci series without using recursion and using recursion- C++ program to check prime number.
5	2	C++ program to print factorial of a number-C++ program to check Armstrong number.
6	2	C++ Program Using Call by value and call by reference in C++
7	3	C++ Program to Implementing class and Objects.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	C++ Program to Implementing Inline function
9	3	C++ Programs based on operators and Control Statements
10	4	C++ Programs based on Implementing Inheritance.
11	4	C++ program for implementing Single Level Inheritance Methods
12	4	C++ program for implementing for Multi Level Inheritance Example
13	5	C++ Programs Based on File Operations
14	5	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.
15	5	Conversion of infix to postfix using stacks operations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kalam
2	1	Vallalar - thirubarutukodai Thiruyanasambanthar - natpaadai
3	3	Periyazhvar-pallandu Namazhvar- thiruvaimozhai
4	4	Venthamayagampillai - nitinul
5	4	Thotram Valrchium
6	3	Bavanagar nokil permakkal
7	3	Bavanagar nokil permakkal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bavanagar nokil permakkal
9	4	Nayakar kalam
10	2	Alagar killai veedu thuthu
11	2	Thiruchendur murugam pillaitamizh
12	4	Sidhar illkiyam
13	2	Arunakirinathar- thirupugazh Pattinathar- thiruthillai
14	2	Sivakiyar
15	5	Yapilakiyam vetruporul

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LT101B : TAMIL - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	20am noottrandu kavigergal
2	1	Bharathiyar Bharathi dhasan
3	1	Namakkal kaviger Perunchitharanar
4	1	Kanna dhasan
5	5	Muthal eluthkkal Vallotru mihumidam
6	5	Vallotru mihaidam
7	3	Puthukkavithai thotramum valarchium



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Arivumathi Meera
9	2	Erodu Thamizhanban Viramuthu
10	2	Sirppy
11	2	Hai koo kavithai
12	2	Sendriu kavithaigal
13	4	Sirukathai thotramum valarchium
14	4	Kadavulum kanthasamy pillaum Oru naal kalinthathu
15	4	Kalanum kizhaviyum Agalyai

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>CHRISTY BELINA F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>21LT02 : TAMIL - II</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Pallavar kala ilakkiyam
2	1	Vallalar Thiruganasambanthar
3	1	Periyazhvar Nammazhvar
4	1	Vanna kazhanjiya pulavar Vethanayagam Pillai
5	4	Urai nadai thottramum valarchiyum
6	3	Pavanar padaippugal 1-4
7	3	Pavanar padaippugal 5-10

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Pavanar padaippugal 11-14
9	4	Nayakker kala ilakkiyam
10	2	Azhar killai vidu thoothu
11	2	Pahazhikkoothar Kumarakurubarar
12	4	Sridhar ilakkiyam
13	2	Arunahiri nathar Pattinathar
14	2	Sivavakkiyar
15	5	Yappu Vaippani

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VICTORIA ANAND MARY A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	1	CPP programs using class and objects
3	1	CPP program using Inline Functions
4	1	CPP program using friend function
5	1	CPP program using default and parameterized constructors
6	1	CPP program using copy and multiple constructors CPP program using destructors
7	1	CPP program using single inheritance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	CPP program using multiple inheritance
9	1	CPP program using multilevel inheritance
10	1	CPP program using hierarchical inheritance
11	1	CPP program using hybrid inheritance
12	1	CPP program to perform push and pop operations of stack using array
13	1	CPP program to perform insertion and deletion operations of queue using array
14	1	CPP program to perform infix to postfix conversion
15	1	CPP program to perform tree traversals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. E. Ruby Violet Rani</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Personality
2	1	Determinants of personality
3	1	Guidelines to improve personality
4	2	Pro-social behavior
5	2	Pro-social behavior in emergency situations
6	2	Theories
7	3	Mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Components of mental health
9	3	Methods to enhance mental health
10	4	Motivation
11	4	Sources of motivation
12	4	Advantages of motivation
13	5	Personality assessment
14	5	Types of personality assessment
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>CSP101B : PRACTICAL - PROGRAMMING IN C</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basic C Programs
2	1	Logical Program in C
3	1	Control Statements Implementing Control statements Implementing Loop structures.
4	2	Summation of series
5	2	String Manipulation
6	2	Sorting Bubble Sort
7	3	Model Test



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Searching Selection Sort
9	3	Insertion Sort Linear Search
10	4	I-CIA Practical Exam
11	4	Matrix Manipulation
12	4	Recursion
13	5	File Handling – Mark sheet.
14	5	II-CIA Practical Exam
15	5	Revision of all Programs

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS204S : FUNDAMENTALS OF DATA STRUCTURES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition of a Data structure - basics of data structures
2	1	Primitive and Composite Data types, Arrays, Operations on Arrays - Order Lists.
3	1	array operations -applications of array-ordered list operations - revision
4	2	Stacks – Operation - Application of Stack -implementation-operations
5	2	Infix to Postfix Conversion - Queues- Operations on Queues
6	2	Queue Applications - Circular Queue.
7	3	Singly Linked List - Representation of a Polynomial

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Polynomial addition - Doubly Linked List.
9	3	list advantages-operations-revision
10	4	Binary trees -Representation
11	4	Conversion of Forest to Binary tree - Tree Traversals.
12	4	tree implementation -operatons and applications
13	5	Definition – Graph Representation
14	5	Types of Graphs - Shortest Path (Dijkistras Algorithm).
15	5	full units revision -class test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CS203S : PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to C++ OOP'S Principles of Object-Oriented Programming [OOP]:
2	1	Evolution of C++ - Programming paradigms Key concept of OOP
3	1	Advantages of OOP- Usage of OOP and C++ Input and Output in C++ Streams
4	2	C++ Fundamentals and Functions Stream Classes Unformatted console I/O Operations Tokens Keywords Identifiers
5	2	Variables, Operators Expressions and Control structures in C++ pointers and arrays Function in C++
6	2	Main function– function prototyping Parameters passing in Functions Values Return by functions Inline Functions Function overloading.
7	3	Object Manipulation and Polymorphism Classes and objects;

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Constructors and Destructors; Operator Overloading
9	3	Type Conversion Friend and Virtual functions.
10	4	Inheritance Single Inheritance Multilevel inheritance Multiple inheritances Hierarchical Hybrid Inheritance
11	4	Virtual Base Class
12	4	Virtual Functions and Polymorphism
13	5	Working with Files: Classes for File Stream Operation
14	5	Opening and Closing a File – End – of – File Detection
15	5	File Pointers- Updating a File Error Handling during File Operation Command-line Arguments.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	SIMPLE PROGRAMS
2	2	Implementing class and Objects.
3	3	Implementing Inline function Implementing Friend function.
4	4	implementing Constructor and Destructor copy Constructor parameterized constructor
5	5	Implementing Operator overloading
6	6	Implementing Inheritance. single Inheritance
7	7	Multiple Inheritance

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Multilevel Inheritance
9	9	multiple Inheritance
10	10	Hybird Inheritance
11	11	Implement PUSH, POP operations of stack using Arrays
12	12	Implementing Friend function
13	13	Implement add, delete operations of a queue using arrays.
14	14	Conversion of infix to postfix using stack operations.
15	15	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANJAL MOSE S Dr.	Academic Year	2022-2023
Department	Computer Science	Semester	2
Subject	AMCS22A : ALLIED MATHEMATICS - II	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definitions of the transportation model, Formulation and solution of transportation models
2	2	North-west corner rule, Least cost method
3	2	Approximation method
4	2	Approximation method
5	2	approximation method, Modi's Method.
6	2	approximation method, Modi's Method.
7	2	Modi's Method.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Modi's Method.
9	2	Modi's Method., some problems
10	5	Operator E, Relation between and E , Interpolation
11	5	Newton – Gregory forward, backward formulae for interpolation
12	5	Lagrange's interpolation formula for unequal intervals
13	5	Lagrange's interpolation formula for unequal intervals
14	5	Lagrange's interpolation formula for unequal intervals (without proof).
15	5	Problems on Lagrange's interpolation formula for unequal intervals (without proof).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. A. Napoleon Joseph</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>LE202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I Listening: Triphthongs II Speaking: 1. Making Requests and Responding to Requests 2. Thanking someone and Responding to thanks
2	1	III Reading: Prose: How to be a Doctor - Stephen Leacock IV Writing: 1. Precis Writing 2. Non – Finite Verbs 3. Strong and Weak Verbs 4. The Auxiliaries
3	2	I Listening: Strong and Weak Forms in Transcription II Speaking: 1. Inviting and Accepting and Refusing an Invitation 2. Apologising and Responding to an Apology
4	2	III Reading: Poem: Auguries of Innocence – William Blake IV Writing: 1. Note Making 2. Use of wrong Preposition 3. Unnecessary use of Articles
5	3	I Listening: The Relationship between Spelling and Sound II Speaking: 1. Paying Compliments, Showing Appreciation, Offering Encouragement and Responding to them. ...
6	3	III Reading: Prose: My Vision for India – A.P.J. Abdul Kalam IV Writing: 1. Report Writing 2. Punctuation and Capitals
7	1	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	I Listening: Sentence Transcription II Speaking: Describing Daily Routines
9	4	III Reading: 1. Poem: If – Rudyard Kipling 2. One-Act Play: The Merchant of Venice -William Shakespeare - 'Trial for a Pound of Flesh'
10	4	IV Writing: 1. Paragraph Writing 2. Personal Details
11	5	I Listening: Transcribing short passages II Speaking: Asking for directions and giving directions
12	5	III Reading: Biography: Kiran Bedi- Parmesh Dangwal
13	5	IV Writing: 1. Use of wrong tenses 2. The uses of prefixes and suffixes
14	5	Revision
15	2	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>PEPS02A : PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Communication
2	1	Description
3	2	Negotiation strategies
4	3	Brainstorming skill
5	3	Compare & contrast
6	3	Mind map Longer reading text Essay writing text 250 words
7	3	ICIA Reading project equipment & gagest

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Listening lectures
9	4	Short talks
10	4	Incorporate into LSRW skills
11	4	Writing recommendation
12	4	Visual input
13	4	Compherion passage
14	5	Making practice PPT Motivational practice Problems solutions essay
15	5	IICIA revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>LENIN A MR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>1</b>
Subject	<b>LE101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	LISTENING SPEECH SOUNDS- CONSONANTS SPEAKING MEETING PEOPLE, EXCHANGING GREETINGS & TAKING LEAVE INTRODUCING PEOPLE TO OTHERS
2	1	READING FORGETTING- ROBERT LYND
3	1	WRITING PARTS OF SPEECH INFORMAL LETTERS THE SENTENCE
4	2	LISTENING SPEECH SOUNDS-VOWELS SPEAKING GIVING PERSONAL INFORMATION TALKING ABOUT PEOPLE READING POEM-MENDING WALL-ROBERT FROST
5	2	LETTER WRITING- FORMAL LETTERS NOUNS-GENDER, CASES, NUMBER & CLASSES ADJECTIVES COMPARISON OF ADJECTIVES
6	3	LISTENING DIPHTHONGS SPEAKING TAKING AND LEAVING MESSAGES MAKING ENQUIRIERS ON THE PHONE
7	3	READING POEM-TIME AND LOVE-SHAKESPEARE WRITING DIALOGUE WRITING ARTICLES PRONOUNS AND ITS TYPES

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	I -CIA
14	5	II-CIA
9	4	LISTENING PHONETIC TRANSCRIPTION SPEAKING ANSWERING THE TELEPHONE AND ASKING FOR SOMEONE
10	4	READING PROSE-MOTHER TERESA- JOHN FRASER ONE ACT PLAY- BEST LAID PLANS-FARRELL MITCHELL
11	4	WRITING READING COMPREHENSION VERBS- TRANSITIVE AND INTRANSITIVE VERBS-ACTIVE AND PASSIVE
12	5	LISTENING VOICED AND VOICELESS SOUNDS SPEAKING DEALING WITH A WRONG NUMBER
13	5	READING SHORT STORY-THE SELFISH GIANT-OSCAR WILDE WRITING VERBS-MOOD AND TENSE CONCORD OR AGREEMENT OF THE VERB WITH THE SUBJECT
15	5	REVISION OF ALL THE TOPICS DISCUSSED

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>2</b>
Subject	<b>CSP202S : PRACTICAL - PROGRAMMING IN C ++</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs
2	1	CPP programs using class and objects
3	1	CPP program using Inline Functions
4	2	CPP program using friend function
5	2	CPP program using default and parameterized constructors
6	2	CPP program using copy and multiple constructors CPP program using destructors
7	3	CPP program using single inheritance



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	CPP program using multilevel inheritance
9	3	CPP program using multilevel inheritance
10	4	CPP program using hierarchical inheritance
11	4	CPP program using hybrid inheritance
12	4	CPP program to perform push and pop operations of stack using array
13	5	CPP program to perform insertion and deletion operations of queue using array
14	5	CPP program to perform infix to postfix conversion
15	5	CPP program to perform tree traversals

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIDYA R Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs Based on HTML Tags
2	1	HTML programs on Lists & Tables
3	1	HTML programs on Frames and Forms
4	2	Simple programs on Java Script
6	2	Java Script programs on dialog Boxes
7	3	Java Script programs on object
8	3	Java Script programs on Built in Objects

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
9	3	Java Script programs on user defined Objects
10	4	Programs Based on CSS
11	4	Programs Based on CSS Properties-Font
12	4	Programs Based on CSS Properties-Text
13	5	Programs Based on XML
14	5	Programs Based on XML Schema
15	5	Programs Based on XML parsers
5	2	Simple programs on Java Script using operators

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>THENMOZHI P</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources.
2	1	Over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	Renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	Ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem,
6	2	Grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	Solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	Ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Etuthokai
2	2	Purnanauru Agananuru
3	3	Kurunthokai Natrinai
4	4	Aingurunuru Kalithokai
5	5	Paripaadal
6	6	Keezhkanaku Noolgalil Needhi Noolgal
7	7	Virundhombal

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Kalamai Kuriparidhal
9	9	Pathupaatu
10	10	Sirupaanatrupadai
11	11	Mullaipaatu
12	12	Madhuraikaanji
13	13	Patinapaalai
14	14	Patinapaalai
15	15	Pathirikaigalil Seidhi Varaidhal Suruki Varaidhal Nerkanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CS305 : JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Fundamentals of Java Language: Introduction to Java – Features of Java – Structure of Java Program-Data Types-Simple basic programs on Java
2	1	Arrays - Control Statements-Selection Statements-Iteration Statements-Jump statements-Programs based on Arrays and Control Statements
3	1	Classes – Objects—Overloading method-Summary of the unit
4	2	Packages, Interfaces and Exception Handling: Packages – Types of Packages-Importing Packages -User defined packages-Programs based on the packages
5	2	Interfaces-Extending interface-variables used in interface-implementing interface
6	2	Exception Handling-Types of Errors-try-catch-throw-throws-finally-programs based on Exception Handling
7	3	Thread :Life Cycle of Thread – Multithreading



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Applets :Applet life cycle – creating simple applets- Loading and displaying images on applets
9	3	working with graphics
10	4	AWT :AWT controls –windows Fundamentals
11	4	Layout managers-Flow Layout-Border Layout-Grid Layout-Card Layout-JDBC Architecture
12	4	Connecting to a Database (MS Access) – SQL commands-select, insert, delete, update.
13	5	NETWORKING: Networking Basics-URL- Inet Address
14	5	TCP/IP Sockets
15	5	RMI :Introduction to RMI-RMI architecture - Example using RMI.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19CSP303 : PRACTICAL - JAVA PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple programs based on Java
2	1	Program based on Arrays & Control Statements -Finding area and Perimeter of a circle. Use BufferedReader class.
3	1	Programs Based Class, Methods and objects
4	2	Implementing and importing packages
5	2	Implementing Interfaces-Arithmetic Manipulations-Programs based on interface using BufferedReader class
6	2	Program based on Exception Handling
7	3	Multithreading

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating simple programs based on Applets
9	3	Loading image onto applet
10	4	Simple Programs using AWT Controls
11	4	Implement an application for Arithmetic operation using AWT.
12	4	Create a database for storing and manipulating student mark list using AWT.
13	5	Simple programs based on Networking
14	5	Write a program to send in two values to the server program and get back the result calculated using RMI
15	5	Incorporating circle symbol onto Bean box.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS407 : INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to HTML-HTML Structure-List-ordered List-Unordered List-Definition List-Simple Programs based on HTML Elements.
2	1	Creating Table – Linking Document
3	1	Frames –Graphics to HTML Doc-Summary of the Unit
4	2	Introduction – Advantage of JAVA Script - JAVA Script Syntax – Data type
5	2	Variable – Array – Operator and Expressions -Looping Constructor
6	2	Function – Dialog Box -alert-confirm -Prompt- Slip test
7	3	JSSS DOM-understanding objects in HTML- DOM objects in Java Script-Simple programs based on DOM in HTML

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	-Browser objects- JavaScript forms: -Form objects- Built-in objects(Math Objects- String Objects)
9	3	Built-in objects -Date-User defined objects.
10	4	Cascading Style Sheets-Class-Simple programs based on CSS
11	4	Using Span Tag-External style sheets
12	4	Using div tag-Layers-Summary of the unit
13	5	XML: Basic XML- Document Type Definition-XML Schema DOM and Presenting XML,
14	5	XML Parsers and Validation
15	5	XSL and XSLT Transformation-Revision of the syllabus

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.MUTHUKUMARAN S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CSP404 : PRACTICAL - INTERNET PROGRAMMING</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creates a simple page without any content using HTML tags- Text Formatting tags of HTML-Creating HTML Document Using Heading Tags-Creating HTML Document Using Comments-Creating HTML Document Using Marquee Tag.
2	1	Create webpage using list tags of HTML-Crete a Simple web page using Table Tags with Attributes- Create a static web page which defines all text formatting tags of HTML in tabular format
3	1	Create a static webpage using table tags of HTML-Programs using Frames
4	2	Simple programs on Java Script-Java Script Programs based on data types-operators-Arrays
5	2	Java Script Programs based on Control Statements
6	2	Java Script Programs based on Functions and Dialog Boxes
7	3	Java Script Programs based on DOM-Java Script Programs based on BOM- HTML FORMS using FORM Tags

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Create webpage using FORMS-Script code for n numbers of Fibonacci series - Script code for Sum of n numbers
9	3	Script code for employee salary calculation
10	4	Script code for simple Calculator-Simple Programs Based on CSS
11	4	Programs Based on CSS Properties-Font- Colors-Text -selector
12	4	Programs based on Implementing the types of Style Sheets-Apply style sheet in Webpage
13	5	Simple Programs based on XML-Script Code using Math Functions.
14	5	Program on XML Validation-XML DTD-XML DOM
15	5	Programs on XSLT-Script Code using String Functions.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1. IMPERUNKAAPIYAM
2	4	4.2. ISIRUKAAPIYAM
3	4	4.2. IRATTAI KAAPIYAM
4	1	1.1. SILAPPATHIGAARAM - KUNTRA KURAVAI KAATHAI
5	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
6	1	1.2. MANIMEGALAI - VUTHAYAKUMAARANAI VAALAALERINTHA KAATHAI
7	2	2.1 SEEVASINTHAMANI - NATTUVALAM



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	5.1. PANPALAI VAANOLI NIGAZHCHI THOGUPPU 5.2. VAADIKKAIYAALAR SEVAI MAIYA ALUVALAR 5.3. SUTTULAA VAZHKAATTI 5.4. KADITHAM 5.5. POTHUKATTURAI
9	4	4.2. PIRAKAPPIYANGAL
10	2	2.3. KAMPARAAMAYANAM - KAIKEYI SOOZHVINAI PADALAM
11	4	4.3. KIRISTHUVVA KAAPIYAM
12	4	4.4. ISLAMIYA KAAPIYAM
13	3	3.1. PERIYAPURANAM - ILLAIYANKUDI MAARANAYANAAR PURANAM
14	3	THEMPAAVANI - SETHAION VTRI PADALAM
15	3	SEERAAPURANAM - KAAMAPADALAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>RITA MARY J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>LT303A : TAMIL - III</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	3	IMPERUM KAAPIYANGAL - VILAKKAM
2	3	IYNGHCHIRU KAAPIYANGAL - VILAKKAM
3	3	PIRA KAAPIYANGAL , RETTAIKKAPIYANGAL - VILAKKAM
4	1	SILAPPATHIGARAM - KUNDRAK KURAVAI KAATHAI
5	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
6	1	MANIMEGALAI - UTHANA KUMARANAI VALAL ERINTHAKAATHAI
7	2	SEEVAGA CHINTHAMANI - EMANGATHA NAATTU VALAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	5	PANBALAI VANOLI NIGAZHCHI THOGUPPU VADIKAIYALER SEVAI MAIYA ALUVALER SUTTRULA VAZHICKATTI KADETHANGAL, POTHUKATTURAIGAL
9	5	SUTTRULA VAZHICKATTI KADETHANGAL, POTHUKATTURAIGAL
10	2	KAMBARAMAYANAM - KAIKEYE SOOZHCHI PADALAM
11	4	KIRUSTHUVA KAAPIYANGAL
12	4	ISLAMIYA KAAPIYANGAL
13	3	PEREYAPURANAM - ILAIYANKUDI MARANAYANAR PURANAM
14	3	THEMBAVANI - SETHAIYON VETTRI PADALAM
15	3	SEERAPURANAM - GAMAP PADALAM- NUBUVATHUKKANDAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ARUL PRAKASH A Dr.	Academic Year	2022-2023
Department	Computer Science	Semester	3
Subject	EVS301S : ENVIRONMENTAL SCIENCE	Course	Computer Science

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust
14	5	wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GANESH KUMAR T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>EVS301S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems Concept, structure and function of an ecosystem – producers, consumers and decomposers – types, characteristics,
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Unit III: Biodiversity Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Unit V: Social Issues, Human population and the Environment conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming,
14	5	acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>AGNES MARY I Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>LT404A : TAMIL - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Ettuthogai
2	1	1.1 Puranaanuru 1.2 Aganaanuru
3	1	1.3 Kurunthogai 1.4 Nartinai
4	1	1.5 Ingurunooru 1.6 Kalithogai
5	1	1.7 Paripaadal
6	4	4.3 Keezhkanaku noolgalil neethi noolgal
7	3	3.1 Arathupaal _ virunthombal



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 Porutpaal _ Kallaamai 3.3 Inbaththupaal _ Kuriparithal
9	4	4.2 Paththupaattu
10	2	2.1 Sirupaanaartrupadai
11	2	2.2 Mullaipaattu
12	2	2.3 Madhuraikaanchi
13	2	2.4 Pattinapaalai
14	2	2.4 Pattinapaalai
15	5	Mozhithiran 5.1 Pathirikaigalil seithi varaithal 5.2 Surukki varaithal 5.3 Nearkaanal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SARANRAJ R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>3</b>
Subject	<b>19ASCS31 : Statistical Methods For Computer Applications-I</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data –
2	1	Tabulation of data – Diagrammatic and Graphical representation of data –
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: Range, Quartile Deviation,
6	2	Mean Deviation, Standard Deviation and Coefficient of Variation.
7	3	Measures of Skewness: Karl Pearson's Coefficient of Skewness.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Bowley's, Kelly's Coefficient of Skewness.
9	3	Kurtosis based on Moments
10	4	Probability: Basic definitions – Axiomatic approach to Probability – Basic theorems on Probability – Addition theorem on probability and related problems.
11	4	Conditional probability Multiplication theorem of probability and related problems.
12	4	Independent events – Pair wise Independent events (definition only) – Baye's theorem and related problems.
13	5	Concept of Random Variable – Probability mass function, Probability density function and Distribution function.
14	5	Mathematical Expectations: Properties of Expectations – Variance, Covariance and their properties. Moment generating function – Characteristics function - Cumulants.
15	5	Properties of expectations, Chebychev's inequality (only theorem).

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>20LE404 : COMMUNICATIVE ENGLISH - IV</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mock Interviews/Actual Interviews Facing an interview Tele - Interviews
2	1	Julius Caesar- Funeral Oration - William Shakespeare Words often confused Receiving visitors
3	2	Seminar skills Idioms and phrases The use of Graphics
4	2	Count of Monte Cristo- Alexander Dumas
5	3	Macbeth - William Shakespeare Homonyms and similar words Tele - Conference
6	3	Henry IV- William Shakespeare Handling customers or clients
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Homophones Booking Hotel Accommodation Making small talk and telling stories
9	4	As you like it- William Shakespeare ( play)
10	5	Negotiations Making appointments
11	5	Hamlet - William Shakespeare ( play)
12	5	The Count of Monte Cristo- Alexander Dumas ( chapter 31- 40) The count of Monte Cristo- Alexander Dumas ( chapter 41-49)
14	5	Revision
15	5	II CIA
13	4	Writing reviews of Books Cancelling and rescheduling appointments

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>4</b>
Subject	<b>19CS408 : COMPUTER ARCHITECTURE</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	introduction to CPU general register organization stack organization
2	1	instruction formats addressing modes
3	1	data transfer and manipulation revision & class test
4	2	arithmetic, instruction pipelining
5	2	risc pipelining class test
6	2	vector processing class test
7	3	addition and subtraction algorithms

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	multiplication and division algorithms
9	3	floating point and decimal arithmetic operations
10	4	peripheral devices - I/O interface asynchronous data transfer
11	4	models of transfer priority interrupt
12	4	direct memory access I/O processor class test
13	5	memory hierarchy main memory
14	5	auxiliary memory class test
15	5	associative cache and virtual memory revision

## INTERNAL QUALITY ASSURANCE CELL

### St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

#### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>19ECS52A : DATA COMMUNICATIONS AND NET WORK</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Networks: Introduction about networking- Protocols and standard – line configuration - types of connections - line configuration - point to point - multipoint. Unit test
2	1	topology – types of topology - bus topology - ring topology - mesh topology - etc.. transmission mode – types of transmission - simplex - Half duplex - Full duplex.
3	1	categories of networks – LAN networks - MAN networks - WAN networks - inter networks and networks. Unit test
4	2	The OSI Model: Functions of the layers – Introduction about OSI model - explain about seven layers - Physical - Data - Network - Session - Application - Session - Application Layers - TCP/IP protocol suite.
5	2	signals – analog and digital signal – periodic and a periodic signal – analog signals – digital signal – data transmission - serial and parallel transmission - synchronous and asynchronous transmission.
6	2	data terminal equipment – data circuit terminals equipment – modems. Unit test.
7	3	Transmission Media: Guided media – unguided media – transmission impairments – media comparison. Multiplexing –



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	FDM – TDM – WDM. Error detection and correction – types of errors–detection – vertical redundancy check (VRC)
9	3	– longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction.
10	4	Switching: Introduction about switching - types of switching - Circuit switching – packet switching - SVC - PVC
11	4	message switching – types of networking and internetworking devices - networking and internetworking devices - bridges and repeaters - routers and gateways.
12	4	repeaters – bridges - types of bridges – routers – gateways. unit test.
13	5	Routing algorithms: Introduction about routing algorithm - line routing algorithm - link state routing algorithm - Distance vector routing algorithm.
14	5	link state routing - types of link state routing - data link control. Unit test
15	5	line discipline – flow control – types of flow control - error control. Discuss about previous question papers. conducting all unit test.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JAYAPAL J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS614 : OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creating your Development Environment –
2	1	– Mixing HTML and PHP
3	1	class test
4	2	– Command -
5	2	Line PHP –
6	2	Working with Variables –
7	3	seminar

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Creating Constants –
9	3	Understanding PHP's Internal Data types –
10	4	Operators and Flow Control.
11	4	class test
12	4	Revision
13	5	READING DATA IN WEB PAGES: Setting up web pages to communication with PHP- Handling Text Fields
14	5	Handling Text Fields
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHNSON DURAI A.R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	2	Entity Relationship Model
2	2	Entities and entity sets – Relationships and Relationship Sets
3	2	Attributes – mapping constraints
4	2	keys –E-R diagram
5	2	Reducing E-R diagrams to tables
6	2	Generalization
7	2	Aggregation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Normalization
9	4	First Normal Form
10	4	Second Normal Form
11	4	Third Normal Form
12	4	Boyce – Codd normal form
13	4	Fourth Normal Form.
14	2	Revision
15	4	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ARUN BENEDICT A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>5</b>
Subject	<b>CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM</b>	Course	<b>Computer Science</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition purpose of database systems data abstraction
2	1	data models instances and schemes
3	1	data independence database manager database administrator database users overall system structure
4	2	Entity Relationship Model: Entities and entity sets Relationships and Relationship Sets attributes
5	2	mapping constraints keys E-R diagram reducing E-R diagrams to tables generalization and aggregation
6	3	Relational Model: the relational algebra
7	3	the tuple relational calculus

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	the domain relational calculus.
9	4	Normalization: First Normal Form Second Normal Form
10	4	Third Normal Form Boyce – Codd normal form Fourth Normal Form.
11	4	DDL,DML,DCL operations integrity constraints string functions
12	5	number functions data arithmetic selecting distinct values
13	5	working with null values pseudo columns
14	5	grouping and ordering data subqueries joins union ,intersect & minus indexes
15	5	clusters views sequences synonym users, roles and privileges grant and revoke permission locks.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANTONY JONES S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Basics of Gimp
2	1	installing software and basic usages
3	1	Introduction and installation of GIMP
4	2	Demonstrate using Tool-box
5	2	The menus and windows
6	2	Layer and Layer masking
7	3	Performing Text Effects



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	I CIA exam
9	3	Modify Color effects in images
10	4	Drawing Shapes in GIMP
11	4	Cutting Images and removing background
12	4	Design a Business Card
13	5	Develop a Banner for College
14	5	II CIA exam
15	5	Model practical

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Simple Programs a. Find the factorial of a given number using PHP h. find the greatest of given number c. Calculate the sum of digits
2	2	Simple Programs d. Multiplication Table using PHP e. Payroll processing using HTML and PHP String Functions
3	3	String Functions
4	4	Sorting using Arrays Array functions Types of array
5	5	Practical Test-I string functions Array functions Factorial using function Fibonacci Series using function Pass
6	6	Factorial using function Fibonacci Series using function Pass Arguments by Value Pass Arguments by Reference Default Arguments
7	7	Create a Home Page using PHP

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Form creation using POST method
9	9	Form creation using POST method Practical Test - I
10	10	Creating Bio data using HTML and PHP
11	11	Creating Telephone Directory using Database Operations
12	12	Practical Test-2
13	13	Login form Student mark list creation
14	14	Electricity bill preparation
15	15	Model Practical Exam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MIRANDA LAKSHMI T</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS613 : OPERATING SYSTEM</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Operating System, Definition of Operating system,
2	1	Kernel, Booting, types of Booting, Services of Operating System, Information Management , Process Management,, Memory management.
3	1	History of Operating System
4	2	Process Management: Context Switching, Different States of Process, Process State Transition Diagram, Process Control Block (PCB), Operation on Process – Levels of Scheduling
5	2	Short term Scheduling Policies: Round robin method - Scheduling based on priority (or priority method) - Priority class method - Heuristic scheduling. - Inter-process communication
6	2	Dead Lock - Dead Lock prerequisites - Dead Lock Strategies.
7	3	Memory Management: Real Memory Management, Virtual Memory Management

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Real Memory Management: Contiguous Real Memory Management, Single Contiguous , Fixed Partitioned, Variable Partitions,
9	3	Non- Contiguous Real Memory Management–Paging , Segmentation - Virtual Memory Management Systems.
10	4	GUI and Security: GUI
11	4	Components of GUI – Requirements of Windows based GUI – Security: Threats – Attacks – Worms – Virus
12	4	Design principles – Encryption: Methods of Encryption – Authentication: Authentication in Centralized Environment, Authentication in Distributed Environment.
13	5	Unix - Architecture of Unix
14	5	Various Modules and relationship of Unix and their relationship – Unix File System: Different Types of Files,
15	5	Important Unix Directories and Files – Basic commands in UNIX.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>JCS601 : MINI PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Arrangement of contents TitlePage
2	2	BonafideCertificate
3	3	Acknowledgement
4	4	Table of contents
5	5	Abstract Chapters of the Report
6	6	ReportReferences
7	7	Appendices, if any

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	Appendices should be named as
9	9	APPENDIX -A
10	10	APPENDIX -B
11	11	BINDING SPECIFICATION
12	12	MARGIN SPECIFICATION
13	13	PAGE NUMBERING
14	14	TITLE PAGE
15	15	FINAL DOCUMENTATION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SUDHA BABUKUMAR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19ECS65A : WEB GRAPHICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: HTML Coding Basic Web Graphics
2	1	Web Page Design Site building
3	1	Image Maps – Adding Multimedia to the Web.
4	2	Paint Sharp Pro/Photoshop: Introduction – Image Basics
5	2	File Formats GIF JPEG Color Palette Layers Creating new Images Brushes Grids Scaling Images
6	2	Moving and Merging layer Tool Palette Screen Capturing Gray Using Style Palette Animation.
7	3	Image Handling Scanning images



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	adding text to the images Designing icons Creating background images
9	3	Color models Color Depths Color Calibration Creating Gradients Oil paint effect.
10	4	Multimedia: Creating Clipping Animation with sound effect
11	4	Audio or video Window's Media Player ActiveX control
12	4	Embedding VRML in a web page Real player ActiveX control.
13	5	Applications Creating website with a particular theme
14	5	Graphics
15	5	Animations and Interactions

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MARY SHAKKINA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19CS614 : OPEN SOURCE TECHNOLOGIES - PHP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Creating your Development Environment Mixing HTML and PHP Command Line in PHP
2	1	Command Line in PHP Working with Variables Creating Constants
3	1	Creating Constants Understanding PHP's Internal Data types Operators and Flow Control.
4	2	String Functions Converting to and from Strings Formatting Text String
5	2	Formatting Text String Modifying Data in an Array Deleting Array Elements
6	2	Arrays with Loops PHP Array Functions Sorting Arrays.
7	3	Passing Functions Passing Arrays to Functions Passing by Reference

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Using Default Arguments Returning Data from functions Nesting Functions. Data Input/ Output functions
9	3	flow of control-control structures switch, break and continue Go to statement comma operator.
10	4	Setting up web pages to communication with PHP Handling Text Fields Checkbox
11	4	Radio buttons Password Controls List boxes
12	4	Buttons Hidden Control File Upload.
13	5	Creating a MYSQL Database Creating a New Table Putting Data into the New Database
14	5	Accessing the Databases in PHP Updating Databases Inserting New Data Items into a Database
15	5	Deleting Records Creating New Tables Creating a New Database Sorting your Data.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>JCS601 : MINI PROJECT</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	introduction about the project Abstract
2	1	introduction about the project Abstract
3	1	how to choose topic how to write abstract format specification
4	1	table of content
5	1	system description
6	1	system description
7	1	hardware description

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	about the project designing home page
9	1	collecting data
10	1	designing child web pages
11	1	connecting Home page to child page link created
12	1	align the document
13	1	program coding
14	1	database creation
15	1	connecting database

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>19SCS62 : PRACTICAL - GIMP</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction and installation of GIMP
2	1	Demonstrate using Tool-box
3	1	Demonstrate using Tool-box
4	1	The menus and windows
5	1	The menus and windows
6	1	Performing Text Effects
7	1	Modify Color effects in images

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	1	Drawing Shapes in GIMP
9	1	Cutting Images and removing background
10	1	Cutting Images and removing background
11	1	Design a Business Card
12	1	Design a Business Card
13	1	Develop a Banner for College
14	1	Develop a Banner for College
15	1	Develop a Banner for College

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ABIRAMI A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Science</b>	Semester	<b>6</b>
Subject	<b>ECS66B : BIG DATA ANALYTICS</b>	Course	<b>Computer Science</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction to Big Data History of Big Data Types of Big Data
2	1	Structured, Unstructured Data and Semi Structured Characteristics of Big Data
3	1	Importance of Big data Introduction to Big Data Analytics
4	2	Activities performed in Big data Classification of Analytics
5	2	Challenges of Big Data Analytics Introduction to terminologies
6	2	Terminologies used in Big Data Environments class test
7	3	Analytics tools Introduction to Hadoop



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Hadoop Architecture how does the big data work processing data with hadoop
9	3	Interacting with Hadoop Ecosystem Components of Hadoop Ecosystem limitations of hadoop
10	4	map reduce task - text analytics and big data
11	4	customized approaches for analysis of big data
12	5	integrating data sources - real - time data streams
13	5	complex event processing
14	5	operationalizing big data
15	5	revision & class test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANNAMMAL A Dr.	Academic Year	2022-2023
Department	Tamil	Semester	2
Subject	EBT201 : BASIC TAMIL	Course	Tamil

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	oru sol vinakal
2	1	agaravarisai
3	1	thirukural
4	1	kalaisol akam
5	2	marabu thoodergal
6	2	Sarthu pirithu eluthuthasl
7	3	oli oli varubadu

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	muthal eluthin martam
9	4	vilangu niram malar nathigal
10	4	paravai payer eluthuthal
11	4	moovanthergal inangal payersol vinaisol pal
12	4	moovanthergal inangal payersol vinaisol pal
13	4	moovanthergal inangal payersol vinaisol pal
14	5	angilathil mozhipayerthal
15	5	angilathil mozhipayerthal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANNAMMAL A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Tamil</b>	Semester	<b>2</b>
Subject	<b>EBT201 : BASIC TAMIL</b>	Course	<b>Tamil</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	oru sol vinakal
2	1	agaravarisai
3	1	thirukural
4	1	kalaisol akam
5	2	marabu thoodergal
6	2	Sarthu pirithu eluthuthasl
7	3	oli oli varubadu

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	muthal eluthin martam
9	4	vilangu niram malar nathigal
10	4	paravai payer eluthuthal
11	4	moovanthergal inangal payersol vinaisol pal
12	4	moovanthergal inangal payersol vinaisol pal
13	4	moovanthergal inangal payersol vinaisol pal
14	5	angilathil mozhipayerthal
15	5	angilathil mozhipayerthal

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. J. Durai Raj</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>4</b>
Subject	<b>19PSW41A : PROJECT MANAGEMENT</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Planning: Meaning, Process, Reasons, Usefulness, Types, Barriers, Importance. Development Cycle in Planning – Existing Development Cycle and Desired Development cycle.
2	1	Project Cycle – Meaning, Phases – Identification, Design, Implementation, Evaluation.
3	1	Project Cycle Management – Meaning and the Importance. Concept Note – Meaning, Outline.
4	2	Project Identification – Need Assessment, Tools for Need Assessment – Listening, Interviewing, Focus Groups
5	2	Community Mapping, Priority Fixing. Capacity Assessment – Meaning
6	2	Types of Assets in Capacity Assessment. Assets and Capacity. Appreciative Inquiry – Discover, Dream, Design and Deliver.
7	3	Project design – Meaning. Process of Project Designing – Stakeholder Analysis, Research including Problem Analysis

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Log Frame, Risk Analysis, Action Planning, Budgeting. Implementation – Meaning, Phases, Factors Affecting the Implementation.
9	3	Monitoring Reviewing and Evaluation – Meaning, Purposes, Differences, Indicators, Reporting
10	4	Corporate Social Responsibility – Meaning, Importance, Theory and Models of CSR.
11	4	Social Auditing – Meaning, Uses, Principles, Stages – Social Book Keeping, Social Accounting and Social Auditing. Methodology and Process of Social Auditing.
12	5	Advocacy: Meaning, Approach, Role and Practice
13	5	National & International Funding Agencies
14	5	State and Central Government Projects; Project Proposal Writing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mrs. S. Vanathi</b>	Academic Year	<b>2022-2023</b>
Department	<b>SOCIAL WORK</b>	Semester	<b>3</b>
Subject	<b>20PSW32C : MENTAL HEALTH AND SOCIAL WORK</b>	Course	<b>SOCIAL WORK</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Mental Health: Meaning, Definition. History and Scope of Psychiatric Social Work; Changing Perspective of Psychiatric Social Work
2	1	Mental Health and Wellbeing in India. India view of Mental Health and Well Being. Attitudes and Beliefs Pertaining to Mental Illness in Ancient, Medieval and Modern Times.
3	2	Stress and Coping: Stress and Mental Health Factors influencing Stress among Children, Adolescents, Women.
4	2	Stress and Coping: Stress and Mental Health Factors influencing Stress among Workers, Elderly and related to Physical Illness, Coping with Stress, Emotions and Crisis.
5	3	Psychiatric Assessment and Intervention: History Taking and Mental Status Examination.
6	3	Psycho Social and Multidimensional Assessment of Mental Disorders in Psychiatric Social work.Common Mental Disorders - Symptoms, Causes.
7	3	Treatment of Neurosis, Psychosis, Psycho Physiological Disorders, Personality Disorders.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
10	4	Mental Retardation and Alzheimer's disease, sexual deviation, epilepsy, culture bound syndrome.
11	4	Social Media Addiction. Psychological Identity. Childhood Disorders: Autism and Infantile Schizophrenia,
12	5	Attention Deficit and Hyperactivity Disorder, Behaviour and Habit Disorder,
13	5	Disorders associated with Eating, Speech and Sleep,
14	5	Scholastic backwardness, Identity Crisis. National Mental Health Programmes.
15	4	Revision
8	3	2017 Amendment of Mental Health Act 1987. Neurotic and Psychotic Disorder: Anxiety, Phobia, Obsessive Compulsive Disorder,
9	4	Posttraumatic Stress Disorder and Psycho Somatic Disorder. Alcoholism, Drug abuse and Suicide.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ALICE MATHAI Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21AECM22 : BUSINESS ECONOMICS - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning of Market- Classification of market Structure-.
2	1	Perfect Competition-Features-Price Determination under Perfect Competition.
3	1	Meaning of Firm & Industry- Equilibrium of Firm & Industry- Equilibrium of a Firm & industry in short period & long period- Time Element Theory.
4	2	Monopoly-Meaning-Features-Price Discrimination-Output Determination.
5	2	Monopolistic Competition-Features – Price & Output determination under Monopolistic Competition- Product Differentiation- Selling Cost .
6	2	Wastages of Monopolistic Competition-Oligopoly – Sweezy Model – Collusion and Price Leadership-Duopoly- Cournot Model
7	3	Marginal Productivity Theory of Distribution- Theories of Rent- Ricardian Theory of Rent

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Modern Theory of Rent - Quasi Rent.
9	3	Revision
10	4	Theories of Interest: Loanable Fund Theory, Liquidity Preference Theory.
11	4	Theories of Profit: Dynamic Theory, Uncertainty Theory and Innovation Theory
12	5	Capital Budgeting-Meaning-Definition-Features of Capital Budgeting.
13	5	Need for Capital Budgeting -Importance of Capital Budgeting – Forms of Capital Budgeting
14	5	Nature of Capital Budgeting Problem-Demand for Capital-Supply of Capital-Capital Rationing
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JOHNBOSCO A Dr	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	LTC101A : TAMIL - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANIN -KODUGAL ILLA VARAIPADAM
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANDREWS F Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM102T : BUSINESS ORGANISATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of Business Meaning Characteristics - Objectives of business Economic Objectives, Social Objectives, Human Objectives, National Objectives - Criteria for Success in Modern Business – Classification of Business-
2	1	Industry- On the basis of type of goods produced:, Trade meaning classification of trade Profession - Meaning- Distinction between Business and Profession
3	2	Social Responsibility of Business Need for social responsibility, responsibility of Firm, responsibility towards share holder responsibility to the society responsibility towards the customer .
4	2	Sole Trader – Partnership firm - concepts of Limited Liability Partnership firm Cooperative Societies - Definition – Meaning – Characteristics – Advantages – Limitations .
5	2	Joint Stock Company – Definition – Meaning – Characteristics – Advantages – Limitations -One Man Company-
6	2	Virtual Organization- Private and Public Limited Company – Government Companies – Public Utilities Meaning - Theories of Location
7	3	- Factors Influencing Location - Plant Layout-Definition - Meaning – Objectives - Characteristics of Good Layout

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Size of Firm- Meaning - Concept of firm Size of firm Measures of size.
9	3	I CIA EXAMINATION
10	4	Business combination introduction, meaning and Definition, Advantages and limitations of business combination. Types of business combination
11	4	Chamber of commerce, meaning Advantages and limitations of chamber of commerce, Functions. Trade association meaning features of trade association
12	5	Trade association Functions Unit 5 Multi corporation introduction meaning concept, differences between IC MNC,TNC,GC. Characters of MNC Culture.
13	5	Impact of MNCs factors contributing of MNCs Advantages and disadvantages of MNCs, Control over MNCs
14	5	Organization and design of MNCs , Structure of MNCs. Relationship between Headquarters and subsidiaries of MNC. MNCs in india
15	5	II CIA EXAMINATION

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SOUSSITRA A Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SELVANATHAN A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is destiny -S.Radhakrishnan prose All the worlds a stage -william Shakespeare - poem
2	1	The never never nest- Cedric mount -play
3	2	Understanding communication Greeting and introducing
4	2	Making requests Agree on and disagreeing Seeking and giving permission
5	2	Persuading and debating Sounds and symbols of english Word and sentence stress Effective use of intonation
6	2	Telephone manners in business situation Handling customers orders and enquiries Handling complaint calls
7	3	The gift of the magi -o.henry & short story

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Malala youssfzai Pakistani activist - Nsomi Blumberg - biograpgy The monkeys paw - w.w.jacob
9	4	Effective listening Understanding the audience
10	4	Perceotual clarity Channel awareness
11	4	Pragmatics Role of verbal and non verbal communication
12	4	Handling delivery and after sale problems Taking part in teleconferences
13	4	Tele interviews Tele conference and it's significance
14	5	Note making Report writing
15	5	Publicity literature

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM101Q : FINANCIAL ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	UNIT-I Book Keeping Accounting-Introduction-Meaning and Definition - Types of Accounting-Accounting concepts and Conventions- Double Entry System
2	1	Accounting Rules- Journal-ledger- Subsidiary Books- Trail Balance- Preparation of Profit and loss A/c and Balance Sheet- - Problem Solving
3	1	Advantages and disadvantages of Accounting- Uses of Financial Statement-Accounting of sole trading concern and non-trading concern.- Problem Solving
4	2	UNIT-II Single Entry System Single Entry System- Meaning and Definition- Preparation of Trading profit and loss A/c and Net worth Method-Statement of Affairs- - Problem Solving
5	2	Conversion Method- Difference between Single Entry System and Double Entry System- Difference between Balance Sheet Problem Solving
6	3	UNIT-III Accounting for Non- Trading Concerns Accounting for Non-trading concerns- Meaning and Definition of Income, Expenditure, General and Special Funds-
7	3	Income, Expenditure, General and Special Funds- Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet.- Problem Solving

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet.- Problem Solving
9	4	UNIT –IV Consignment Accounts Consignment- Meaning- Accounting for consignment transaction-- Problem Solving
10	4	stock valuation- preparation of consignment A/c- Normal loss and abnormal loss calculation.- Problem Solving
11	4	stock valuation- preparation of consignment A/c- Normal loss and abnormal loss calculation.- Problem Solving
12	5	UNIT-V Joint Venture Joint Venture- Meaning and Definition- Difference between partnership and joint venture- Problem Solving
13	5	Journal entries for Joint Venture transactions when separate book for joint venture is maintained- (Recording Joint venture transactions in own books is Excluded).- Problem Solving
14	5	Journal entries for Joint Venture transactions when separate book for joint venture is maintained- (Recording Joint venture transactions in own books is Excluded).- Problem Solving
15	5	Revision - Problem Solving

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRABAKARAN D</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM203T : FINANCIAL ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Average Due Date and Account Current Average Due Date-meaning of Average due date-Uses of Average due date-basic problems in average due date-calculation of interests-
2	1	Average due date basic problems-calculation of interests
3	1	Account current-counting of days-methods of calculating interests-simple problems.
4	2	Branch Accounts Branch – Meaning - Types of branches - Department branches – difference between branch and Department –
5	2	Preparation of trading account of branches under debtor system – Stock and debtors' system
6	2	whole sale branch system and Final account systems.
7	3	UNIT -III: Departmental Accounts . Introduction – Allocation of expenses – Calculation department purchase Interdepartmental transfers at cost price – Selling price

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Preparation of trading and Profit & Loss account of the department
9	4	Admission and Retirement of Partners Accounting Treatments - Admission of partner –
10	4	Retirement of Partner
11	4	Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital
12	5	Dissolution of Partnership Dissolution of firm – Modes of dissolution – insolvency of a partner - Garner Vs. Murray rule - Insolvency of all partner –
13	5	Dissolution of Partnership- Piecemeal distribution – proportionate capital method-
14	5	Dissolution of Partnership- Maximum loss Method
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM204A : PRINCIPLES OF MARKETING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Market- Meaning- Definition- Classification of markets - Marketing – Meaning – Definition- Evolution – Approaches - Modern marketing concepts
2	1	4P's Marketing Mix,4A'sMarketing –Modern Marketing Management - Meaning-Concepts - Role of Marketing in Economic Development
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	Meaning- Features-Classification of products- Product Mix- Product Innovation
5	2	New Product Development-Product Life Cycle - Branding- Meaning- Advantages and Limitations.
6	2	Packaging – Meaning – Kinds – Labeling – Meaning- Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions Pricing Policies



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedure for price determination- Kinds of Pricing.
9	3	Revision of Units I, II & III
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen-Wholesalers –Types - Services rendered by wholesalers
11	4	Retailers- Types – Requisites – Services rendered by retailers- Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing
12	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
13	5	Advertising- Meaning and definition– Medias – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy
14	5	Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising.
15	5	Revision of Units IV & V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	LTC101A : TAMIL - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHTHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction Meaning of values Concept of Values Accomplishment and Psychological Energies Definition of Values Making Values Live Process of Implementing Values in Our life
2	1	Converting Energy into Force Applying High Values to an Aspired Goal Believing in and Implementing Personal Values Education, Values and Life Response The Importance of Personal Values Acquiring social values Definition of Family
3	1	Family – An agent of new society Moral values The Important Moral Values Gender Justice Religion Inculcates Values Spiritual Power Reflecting in Values Importance of value education
4	2	Introduction Attitude Definition of Attitude Attitude Formation
5	2	Experience Social Factors Learning Attitudes and Behavior Factors that Influence Attitude
6	2	Factors that Influence Attitude Strength Attitudes Can Change to Match Behavior Learning Theory of Attitude Change Elaboration Likelihood Theory of Attitude Change Dissonance Theory of Attitude Change
7	3	Definition of Positive Psychology The Origins of Modern-Day Positive Psychology Positive mental Health The five keys for sustainable happiness Factors that influence happiness

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Work and Happiness Quality of Life Seligman's Model of Happiness Promoting well-being
9	3	Identifying character strength Identifying Positive emotions Life decisions to show courage What Love means to you
10	4	Introduction Creative Problem Solving Core Principles of Creative Problem Solving Divergent and Convergent Thinking: The Dynamic Balance of Creativity
11	4	Divergent Thinking Guidelines Convergent thinking guidelines
12	4	Decision making Group versus individual decision making Group Decision Making: Advantages and Disadvantages
13	5	Introduction Characteristics of leadership Role of the Leader of an Institution. As an organizer
14	5	Administrator As supervisor As a Leader As a motivator As moral builder As a coordinator
15	5	As a confidence builder As a Philosopher As a scholar As a professional person As a human relationship person

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. R. Sembiyan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>EPD201A : DYNAMICS OF PERSONALITY</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction of personality Meaning of personality Definition of personality Determines of the personality Biological factors Genetic Hormones
2	1	Physical environment Climate Iron Psychological factors Self concept Intelligence
3	1	Cultural factors Religion Education Need for personality development Guidelines to improve our personality
4	2	Pro social behaviour introduction Definition and description Pro social behaviour and altruism Pro social behaviour in emergency
5	2	Factors affecting helping behaviours Physical attractiveness Similarity and kinship Religiosity Identifiable victims effect Positive friends influence Gender Personality Effects of positive moods
6	2	Theoretical perspectives of pro social behaviour Social learning theory Most perspective Biological perspective Negative state relief hypothesis Empathy altruism hypothesis Empathetic joy hypothesis Self efficacy hypothesis Reciprocity and social...
7	3	Mental health introduction Mental health and mental illness Definition of mental health

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Determines of mental health Biological factors Psychological factors Components of mental health Self governance Tolerance of uncertainty Mastery of the environment Reality orientation Self esteem Self acceptance Positive regards Autonomy See...
9	3	Ways to improve our mental health Tell yourself something positive Write down something you are grateful for Focus on one thing Exercises Eat a good meal Open up to someone Do something to someone Take a break Go bed on time
10	4	Introduction of motivation Definition of motivation Nature and characteristics of motivation
11	4	Classification of motivation Primary Secondary Types of motivation Intrinsic motivation Extrinsic motivation Advantage and disadvantages of intrinsic motivation and extrinsic motivation
12	4	Theories of motivation Maslow's hierarchy theory Cognitive approach Attribution theory Contemporary theory Goal setting theory Advantage of motivation
13	5	Introduction of personality assessment Interview Observation Behavioural assessment
14	5	Personality inventory Situational test Projective tests Rorschach inkblot test Thematic apperception test
15	5	Children apperception test Word association test Sentence completion test Uses of personality assessment Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KIRUTHIKA S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Economics-Meaning -Definition-Nature& Scope of Business Economics.
2	1	Relationship of Business Economics and other disciplines-Objectives of Business Firm-Business Decision Making Process.
3	2	Demand –Meaning-Definition-Factors Influencing Demand.
4	2	Law of Demand – Exceptions to the Law of Demand .
5	2	Elasticity of Demand –Importance of Elasticity of Demand-Types of Elasticity of Demand.
6	3	Demand Forecasting -Meaning-Objectives of Demand Forecasting-Types of Forecasting.
7	3	Methods of Demand Forecasting-Survey method-Consumer survey Method-Expert opinion method- Statistical Methods-Trend Projection.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Criteria of a good forecasting method-Forecasting Demand for New Products.
9	4	Introduction-Factors of Production-Production Function .
10	4	Importance of Production Function –The Cobb-Douglas Production Function.
11	4	The Law of Variable Proportions – The Law of Returns to Scale.
12	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost-Total Cost- Total Fixed Cost, and Total Variable Cost.
13	5	Relationship between Average cost & Marginal cost-U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	1	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	3
Subject	CM305P : CORPORATE ACCOUNTING - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Issue of Shares : Introduction – Meaning – Definition – Features - Kinds of Companies –Under Subscription and Over Subscription
2	1	Issue of shares at par – At Premium – At Discount - Calls-in- arrears - Calls-in-advance - Forfeiture of Shares
3	1	Reissue of Forfeited Shares-Balance Sheet
4	2	Redemption of Preference Shares : Introduction – Meaning - Provision of the Companies Act Section 80 and 80A –Steps Involved in Redemption of Preference Shares and Problems without Balance Sheet
5	2	Redemption of Preference Shares Problems with Balance Sheet
6	3	Acquisition of Business : Introduction – Meaning - When new set of books are opened - Net asset method –Net payment method
7	3	Debtors and Creditors taken over on behalf of vendors –When same set of books are continued.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	When same set of books are not continued and When Debtors and Creditors are not taken over.
9	3	Revision
10	4	Profits Prior to Incorporation : Introduction – Meaning-Methods of Ascertaining profit or loss prior to Incorporation -Basis of Apportionment of Expenses and Simple Problems.
11	4	Profits Prior to Incorporation with Profit and Loss Account
12	4	Profits Prior to Incorporation with Balance Sheet
13	5	Final Accounts of Companies : Introduction - statement of profit and loss , Problems on Final Account with Profit and Loss Account
14	5	Problems on Final Account with Balance Sheet.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	VAITIANADANE @ ANBOUNADANE P	Academic Year	2022-2023
Department	Commerce	Semester	4
Subject	CM408P : CORPORATE ACCOUNTING - II	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valuation of Goodwill : Introduction – Meaning – Definition – Need – Factors Affecting Value of Goodwill –Methods – Problems on Average profit method – Problems on Weighted Average –Problems on Super profit method.
2	1	Problems on Annuity Method – Problems on Capitalization Method. Shares : Introduction – Meaning – Definition – Need – Factors affecting valuation of shares – Methods – Problems on Net asset method.
3	1	Problems on Yield Method – Problems on Fair value method.- Problems on Goodwill and Shares.
4	2	Alteration of Share Capital and Internal Reconstruction : Introduction – Meaning – Different kinds of alteration of share capital – Capital reduction – Procedure for reduction of share capital.
5	2	Problems on Alteration of Share Capital and Internal Reconstruction.
6	3	Amalgamation : Introduction – Meaning (Accounting Standard 14 ) –Types of amalgamation – Amalgamation in the nature of Merger – In the nature of Purchase –Computation of Purchase Consideration.
7	3	Amalgamation : Lumpsum method – Net payment method –Net asset method – Intrinsic value method. Problems on Amalgamation.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Absorption : Meaning – Methods – Net payment method – Net asset Method – Intrinsic value method. Problems on Absorption.
9	3	External Reconstruction : Introduction – Meaning – Methods – Lumpsum method –Net payment method ( Inter company holding excluded). Problems on External Reconstruction.
10	3	Revision
11	4	Holding Company : Introduction – Meaning – Definition – Subsidiary Company – Meaning – Capital Profit – Revenue Profit – Minority Interest – Goodwill / Capital Reserve – Unrealized Profit – Computation of consolidated balance sheet (A...
12	4	Problems on Holding Companies.
13	5	Bank Accounts : Introduction – Meaning - Business of banking companies - Legal Requirements –Preparation of profit and loss accounts (Form ‘B’ of Schedule III) and Balance Sheet (Form ‘A’ of Schedule III).
14	5	Problems on Bank Accounts.
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAVARIMUTHU I Dr.</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>CM306A : PRINCIPLES OF MANAGEMENT</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Meaning, Definition, Functions of Management. Managerial skills and levels of management.
2	1	Roles of manager, Management as a Science or Art, Approaches to Management.
3	1	Contribution to management by F.W.Taylor, Henry Fayol, Elton Mayo, Peter F. Drucker and C. K. Prahalad - revision.
4	2	Planning – Meaning, Definition, importance, process and types.
5	2	Methods of planning - Objectives- Policies- Procedures - Strategies & Programmes - Obstacles to effective planning.
6	2	Decision making – Steps, Types, Decision Tree - revision.
7	3	Organization - Importance - Principles of Organisation. Delegation & Decentralization – Departmentation, Span of Management. Organizational structure: line & staff and functional - organizational charts and manual-making organizing effective.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Staffing-recruitment -selection-Training, promotion and appraisal - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Function of directing - Motivation - Theories of motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques.
11	4	Communication - Function - Process - Barriers to effective communication.
12	4	Leadership-Definition-Theories and approach to leadership-styles of leadership-Types – revision.
13	5	Meaning, Definition, Nature - Problems of effective coordination.
14	5	Control - Nature - Basic control process - control techniques (traditional and non-traditional)-Use of Computers in managing information – Concepts of keizen – six sigma - revision.
15	5	Revision of 4th & 5th units.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JUSTIN MARSHALL C</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>19GCM31B : Internet technologies</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	What is Internet?-Origin of Internet-IP address-Domain name
2	1	Host Name-DNS-Port Number-WWW-URL-Web server-Web browser-Search Engine-.
3	1	Types of Internet Connections-Hardware Requirements-Internet accounts
4	1	Network-Types of Network-Network Topologies.
5	3	Tables creation in HTML
6	3	Frames in HTML
7	3	Cascading Style Sheet (CSS)-Uses of CSS.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Types of CSS
9	4	Java Script: Java Script Syntax
10	4	Input and Output in Java Script-Data types
11	4	Variables-Arrays-Expressions-Dialog box-Looping structure.
12	5	Uses of Internet: E-mail-Chat-On line Transaction
13	5	Credit card transaction-Debit card transaction
14	5	Net banking-E-Business-Uses of internet in education.
15	5	E-Shopping-Web publishing

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.JOHN BOSCO M</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>CM409A : BANKING LAW AND PRACTICE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Bank –Meaning, Definition, Classification, types of banks and their functions and Services. -
2	1	Commercial Banks – meaning, definition and functions. Central Bank - meaning, definition and functions
3	1	Universal Banking - Banking Regulations Act 1949 – features, objectives and recent amendments.
4	2	Negotiable instruments- meaning and definition, features and types of Cheque-Essentials of a Cheque-Crossing of a Cheque-General Crossing a n d Special Crossing-
5	2	Payment of ChequeCollection of Cheque -Endorsement. Promissory note- meaning and features.
6	2	Bill of Exchange– Meaning, features, difference between cheque and bill of exchange, difference between bill of exchange and promissory note
7	3	Banker - Customer - General and Special relationship between Banker and Customer -

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Opening of Current - Saving - Recurring - Fixed deposit Accounts - Special types of Accounts - Minor -
9	3	Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions.
10	4	Credit Rating – Meaning, Basis, symbols and Benefits. Lending – Meaning,
11	4	Lending and Investment Policies of Commercial Banks. Types of loans – Secured and Unsecured Loans.
12	4	Recovery Management – Meaning, Advantages and Disadvantages – Elements of Debt Recovery – Procedure of Debt Recovery – Non-Performing Assets – Meaning.
13	5	E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs - CashMachine -
14	5	Electronic Money - Electronic Fund Transfer System (EFT) – RTGS -- ElectronicClearing Services (ECS) ElectronicFundTransfer: Interbank Fund Transfer Processor (IFTP), Immediate Payment Service (IMPS)– National Electronic Fund Transfer (NEFT) and Re...
15	5	(RTGS)– Difference Between IMPS, RTGS, NEFT, UPI and Mobile Wallets- Indian Financial Network - Customer Grievances Redressal andOmbudsman.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	ANJAL MOSE S Dr.	Academic Year	2022-2023
Department	Commerce	Semester	4
Subject	AMCM401 : BUSINESS MATHEMATICS	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic concepts, Subsets
2	1	Operations on sets Applications, Cartesian Product
3	1	Relation, Properties of relation , Functions.
4	2	Distance , Slope of a straight line
5	2	Equation of Straight line , Interpretation
6	2	Break even analysis ,Parabolas.
7	3	Limits, Continuity, Average,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Marginal concepts, Differential coefficient concepts
9	3	Simple applications to Economics.
10	4	Addition of matrices, Scalar multiplication
11	4	Multiplication of a matrix by a matrix, Inverse of a matrix
12	4	Solution of a system of linear equation –Input output Analysis.
13	5	Percentages, Simple and Compound interests
14	5	Arithmetic and Geometric Series,
15	5	Simultaneous Linear equations.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SARANRAJ R</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>ASCM301A : BUSINESS STATISTICS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data
2	1	Primary data and Secondary data – Different methods of collecting primary data
3	1	Classification and Tabulation of Statistical data. Frequency distribution:
4	1	Measures of Central value: Arithmetic Mean definition and related problems
5	1	Median and Mode definition and related problems
6	1	Geometric Mean definition and related problems
7	1	Harmonic Mean definition and related problems

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Index numbers – Uses of index Numbers .
9	4	Methods of Constructing Index Numbers – Simple Aggregative Method –
10	4	Weighted Aggregative Indices – Laspeyre’s, Paasche’s, Bowley’s and Fisher Ideal Method
11	4	Weighted Aggregative Indices – Quantity and value Indices
12	4	Tests of adequacy of Index Numbers: Time Reversal test
13	4	Factor Reversal test (problems only). Family Budget method.
14	4	Problems in the Construction of Index Numbers
15	4	Revisions

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>VIJAYA SANKAR M Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>3</b>
Subject	<b>ASCM301A : BUSINESS STATISTICS</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data
2	1	Classification and Tabulation of Statistical data. Frequency distribution: Simple and cumulative
3	1	Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
5	2	Standard Deviation- Combined standard deviation and Coefficient of Variation.
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods.
7	3	Correlation: Karl Pearson's coefficient of correlation



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Spearman's rank correlation coefficient and Concurrent deviation method.
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers
11	4	Methods of Constructing Index Numbers – Simple Aggregative Method – Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted
12	4	Aggregative Indices – Quantity and value Indices – Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
13	6	Time Series – Uses and Components. Measurement of Trend: Semi-average method
14	5	Moving Average Method (problems up to 5 yearly) – Least Square Method
15	5	Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method Link Relative Method.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JAYAPRABHA N	Academic Year	2022-2023
Department	Commerce	Semester	4
Subject	EVS401S : ENVIRONMENTAL SCIENCE	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession – food chains, food webs and ecological pyramids –
5	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
6	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation – hot spots –
7	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
9	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
10	4	solid waste management: causes, effects, control measures and disposal of wastes –
11	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation –
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion –
15	5	Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>PRAVINA MARY S DR</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>4</b>
Subject	<b>EVS401S : ENVIRONMENTAL SCIENCE</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams.
2	1	Water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity.
3	1	Energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems -Concept, structure and function of an ecosystem – producers, consumers and decomposes – energy flow.
5	2	Ecological succession – food chains, food webs and ecological pyramids – types.
6	2	Characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem.
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity.

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	India as a mega diversity nation – hot spots – threats to biodiversity.
9	3	Endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution.
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes.
12	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution.
14	5	Climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act.
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>NBCFA301 : FIRST AID</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, objects, responsibilities, golden rules of first aid, kit for first aid,
2	1	Diagnosis of disease ( history, symptoms, causes, clinical significance, treatment). vital signs- pupil reaction, pulse rate, BP, level of consciousness, temperature, etc.,
3	1	Wounds and it's types, abdominal wounds
4	1	special wounds,Blood pressure, Hemorrhage,
5	3	Anaphylatic shock, insect bites, scorpion bites
6	3	dog bites, snake bites
7	3	poisoning and route of taking poisoning, head injuries

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	chest injuries, electrical and cold burning, & etc.,
9	4	Common cold
10	4	Diarrhoea
11	4	Dysentery
12	4	tooth & ear ache,
13	4	head ache
14	4	constipation
15	4	travel sickness

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ANAND CHRISTY S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Computer Applications</b>	Semester	<b>3</b>
Subject	<b>NCADG301 : DESIGNING USING GIMP</b>	Course	<b>Computer Applications</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Getting Started with GIMP-Learning the Basics
2	1	Getting around GIMP-The GIMP Toolbox
3	1	Basic GIMP Techniques
4	2	Mixing Colors in GIMP
5	2	Cutting Out An Image Using GIMP
6	2	Using the Quick Mask In GIMP
7	3	Understanding Layer Masks in GIMP-Use GIMP Layers to Create Amazing Photos



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	-Work with Paths in GIMP-Mastering GIMP Filters
9	3	Controlling Lighting & Shade in GIMP
10	4	Colorize a Black and White Photo with GIMP
12	4	Introduction to GIMP Animation
13	5	Using the Cage Transform Tool in GIMP
14	5	Introduction to GIMP Scripting
15	5	A Collection of GIMP Text Effects
11	4	Photo Retouching with GIMP-Creating a Custom Brushes in GIMP

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>JOHN ROBERT J</b>	Academic Year	<b>2022-2023</b>
Department	<b>Bio Chemistry</b>	Semester	<b>3</b>
Subject	<b>NBCFA301 : FIRST AID</b>	Course	<b>Bio Chemistry</b>

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, objects, responsibilities, golden rules of first aid, kit for first aid,
2	1	Diagnosis of disease ( history, symptoms, causes, clinical significance, treatment). vital signs- pupil reaction, pulse rate, BP, level of consciousness, temperature, etc.,
3	1	Wounds and it's types, abdominal wounds
4	1	special wounds,Blood pressure, Hemorrhage,
5	3	Anaphylatic shock, insect bites, scorpion bites
6	3	dog bites, snake bites
7	3	poisoning and route of taking poisoning, head injuries

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	chest injuries, electrical and cold burning, & etc.,
9	4	Common cold
10	4	Diarrhoea
11	4	Dysentery
12	4	tooth & ear ache,
13	4	head ache
14	4	constipation
15	4	travel sickness

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	JOHNBOSCO A Dr	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	LTC101A : TAMIL - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANIN -KODUGAL ILLA VARAIPADAM
8	4	4.3.LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4 KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	SOUSSITRA A Dr.	Academic Year	2022-2023
Department	Commerce	Semester	2
Subject	21LTC02 : TAMIL - II	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1 Etuthokai
2	1	1.1 Purananuru 1.2 Agananuru
3	1	1.3 Kurunthokai 1.4 Natrinai
4	1	1.5 Kalithokai
5	5	4.3 Padhinenkeezh kanakil needhinoogal
6	6	4.3 Padhinenkeezh kanakil needhinoogal
7	7	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	8	3.1 Kooda ozhukam 3.2 Avaiaridhal 3.3 Pazhamai
9	9	4.2 Pathupaatu
10	10	4.2 Pathupaatu
11	11	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
12	12	2.1 Nedunal vaadai 2.2 Porunaraatrupadai
13	13	2.3 Mullaipaatu
14	14	2.4 Madhuraikaanji
15	15	5.1 Kadithangal 5.2 Nerkanal 5.3 Panpalai Vaanoli Negazhchi Thogupu 5.4 Vaadikaiyalar Sevai Maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM102T : BUSINESS ORGANISATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business – Meaning – Characteristics - Objectives - Criteria for Success in Modern Business
2	1	Classification of Business-Profession - Meaning-Distinction between Business and Profession - Social Responsibility of Business
3	2	Sole Trader – Partnership firm - concepts of Limited Liability Partnership firm,
4	2	Cooperative Societies - Joint Stock Company – Definition – Meaning – Characteristics – Advantages – Limitations
5	2	One Man Company- Virtual Organization- Private and Public Limited Company – Government Companies – Public Utilities
6	3	Meaning - Theories of Location - Factors Influencing Location - Plant Layout-Definition
7	3	Plant Layout - Meaning – Objectives - Characteristics of Good Layout



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Size of Firm- Meaning - Concept of Size - Measures of Size
9	3	REVISION UNITS I, II, III
10	4	Definition - Meaning – Advantages and Limitations – Types of Combination
11	4	Chamber of Commerce – Meaning - Advantages and functions – Trade Associations – Features and functions
12	5	Definition - Distinction among IC, MNC, GC and TNC - Characteristics of MNC's
13	5	cultural impact of MNC's. Factors contributed for the growth of MNC's – Advantages and Disadvantages of MNC's
14	5	Control over MNC's – Organization Design and Structure of MNC, s – Relationship between Headquarters and Subsidiaries – MNC's in India
15	5	REVISION UNITS IV, V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr.BABY MOTCHARAKKINI S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM204A : PRINCIPLES OF MARKETING</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Market- Meaning- Definition- Classification of markets - Marketing – Meaning – Definition- Evolution – Approaches - Modern marketing concepts
2	1	4P's Marketing Mix,4A'sMarketing –Modern Marketing Management - Meaning-Concepts - Role of Marketing in Economic Development
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	Meaning- Features-Classification of products- Product Mix- Product Innovation
5	2	New Product Development-Product Life Cycle - Branding- Meaning- Advantages and Limitations.
6	2	Packaging – Meaning – Kinds – Labeling – Meaning- Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions Pricing Policies

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Procedure for price determination- Kinds of Pricing.
9	3	Revision of Units I, II & III
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen-Wholesalers –Types - Services rendered by wholesalers
11	4	Retailers- Types – Requisites – Services rendered by retailers- Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing
12	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
13	5	Advertising- Meaning and definition– Medias – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy
14	5	Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising.
15	5	Revision of Units IV & V

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>GRACY JANOVA A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	4,1 ETTUTHOGAI
2	1	1.1 PURANAANOORU - 30,182 1.2 AGANANOORU - 105,154
3	1	1.3 KURUNTHOGAI - 25,53 1.4 NATRINAI - 01,172
4	1	1.5 KALITHOGAI - 111,133
5	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 1-6
6	4	4.3 PATHINEN KEEZH KANAKIL NEETHI NOOLGAL 6-11
7	3	THIRUKURAL 3.1.KOODA OLUKKAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	3.2 AVAI ARITHAL 3.3 PAZHAIMAI
9	4	4.1 PATHTHUPAATTU -AATRUPPADAI NOOLGAL
10	4	4.1 PATHTHUPAATTU - AGAM, PURAM
11	2	2.1 PATHUPPAATTU - NEDUNAL VAADAI 1-63
12	2	2.2 PORUNAR AATRUPPADAI - 42- 78
13	2	2.3 MULLAI PAATTU 24- 79
14	2	2.4 MATHURAI KANJAI 500-526
15	5	MOZHI THIRAN 5.1 KADITHANGAL 5.2 NER KANAL 5.3 PANBALAI VANOLI NIGALCHI THOGUPPU 5.4 VADIKKAIALAR SEVAI MAIYAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	LEEMA S	Academic Year	2022-2023
Department	Commerce	Semester	1
Subject	LTC101A : TAMIL - I	Course	Commerce

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. BHARTHIYAAR - SENTHAMIZH NAADU
2	1	1.2. BHARTHIDASAN - THAMIZ IYAKKAM (NENCHU PATHAIGUM NILAI 5 PAADALGAL)
3	1	1.3. ERODU THAMIZHANBAN - VALLUVARIN THAAI IRANTHA NAALIL
4	1	1.4. ARIVUMATHI - PASUMAI 1.5. SURATHA - SIKKANAM (THURAIMUGAM)
5	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
6	4	4.1. THIRU.VI.KAVIN SILA MURAIGAL
7	4	4.2. S. RAMAKIRUZHANANIN -KODUGAL ILLA VARAIPADAM

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	4	4.3. LUDOVIK HAPLAR SAALAI THIRANTHU KIDAKIRATHU 4.4. KAPPAL ERIYA OTTAGASIVINGI
9	5	5.1. MUDAL EZHUTHTHU, SAARPEZHUTHTHU 5.2. VALLOTTRU MIGUM IDAM 5.3. VALLOTTRU MIGA IDAM
10	2	2.1. SILAPPATHIGAARAM - VAAZHHTHURAI KAATHAI
11	2	2.2. MANIMEGALAI - SIRAIKOTTAM ARAKKOTTAM AAKIYA KAATHAI
12	2	2.3. KAMOARAAMAAYANAM - JADAAUV KAN KAATHAI
13	2	2.4. THIRUNAAVUKARASAR - THIRUANGAMAALAI 2.5. VALLALAR - PARASIVA NILAI 2.6. KUTTRALA KURAVANCHI - NAATTU VALAM
14	3	3.1. PUTHUMAI PITHTHAN - KAALANUM KIZHVIVUM 3.2. JEYAKAANTHAN - SUMAITHAANKI
15	3	3.3. SUJATHA - NAGARAM

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>MADELINE A</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>21LTC02 : TAMIL - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	4	Ettuthokai
2	1	Purananuru - 50, 182 Akananuru - 105, 154
3	1	Kunthokai - 25, 53 Natrinai - 01, 172
4	1	Kalithokai - 111, 133
5	4	Pathnen kezhkanakkil neethi noolgal 1-5
6	4	Pathnen kezhkanakkil neethi noolgal 6-11
7	3	Thirukkural - Kooda Ozhukkam, Pazhaimai



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Thirukkural - Avaiyarithal
9	4	Pathupattu noolgal 1-5
10	4	Parhupattu noolgal 6-10
11	2	Nedunal vadai 1-63
12	2	Porunar Aatru padai 42-78
13	2	Mullai pattu 24-79
14	2	Madurai Kanchi 500-526
15	5	Mozgithiran - Kadithangal, Nerkanal, Panpalai vanoli nigazhchi thoguppu, Vadikkaiyalar sevai maiyam

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>LEC101A : COMMUNICATIVE ENGLISH - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Character is Destiny - S.Radha Krishnan (Prose) All the World's a Stage - William Shakespeare ( Poetry) The Never Never Nest - Cedric Mount ( Play)
2	2	Understanding Communication Greeting and Introducing Making Requests
3	2	Agreeing and Disagreeing Seeking and Giving Permission Persuading and Debating
4	2	Sounds and Symbols in English Word and Sentence Stress Effective Use of Intonation
5	2	Telephone Manners in Business Situations Handling Customer Orders and Enquiries Handling Complaint Calls
6	5	Note - Making Report - Writing
7	0	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	The Gift of Magi - O'Henry ( Short Story) Malala Yousafzai Pakistani Activist - Naomi Blumberg ( Biography) The Monkey's Paw - W.W. Jacob ( One - Act Play)
14	0	II CIA Exam
15	0	Revision
9	4	Effective Listening Understanding the Audience
10	4	Perceptal Clarity Channel Awareness
11	4	Role of Non - Verbal Communication Pragmatics
12	4	Handling Delivery and After - Sales Problems Taking Part in Teleconferences
13	5	Tele - Interviews Publicity Literature ( Advertisements)

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Dr. P. Indhu Sakthi</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Indian Women - S.Radhakrishnan (Prose)
2	1	The Solitary Reaper - William Wordsworth (Poem)
3	1	The Purple Dress - O' Henry (Short Story)
4	2	Importance of Effective Communication in Business Context Face to Face Communication with Customers and Visitors Talking to People in Transactional Situations Receiving Visitors
5	2	Booking Hotel Accommodation Small Talk and Telling Stories Group Discussion
6	5	Preparing for Interviews & Taking Interviews Promotion Interviews Standard Business Letters
7	3	I CIA Exam

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Give us a Role Model - Dr.A.P.J Abdul Kalam (Prose) J.R.D's Words of Inspiration to Sudha Murthy ( Story)
9	3	Souvali - Mahasweta Devi (Prose)
10	4	Preparing Agenda for Meetings Writing Minutes of Meetings Notes of Business Conversation
11	4	Business Presentations Negotiation Communication Skills with Public, Fellow, Employees, Supervisors and Customers
12	4	Soft Skills for Team Building Team Maintenance and Task Maintenance Roles Brainstorming and Consensus - Making Communication
13	5	Applying for Jobs Writing Cover Letters for Resume
14	5	II CIA Exam
15	5	Revision and Test

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>Mr. P. Malaiarasan</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>PECM01A : PROFESSIONAL ENGLISH FOR COMMERCE &amp; MANAGEMENT - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Listening to instructions
2	1	Speaking pair work & small group
3	1	Linking word Small group discussion
4	1	Reading skimming & scanning
5	2	Checking facts & opinion
6	2	Writing products description
7	2	Listening lectures

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Listening listen to lecture
9	3	Speaking Role play
10	3	Reading listening comprehension
11	3	One word substitution
12	4	Modals Definition
13	4	Listening interview of speciality
14	5	Note making Writing developing story from picture
15	5	Creative writing Significance of written communication in business

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>BALAMURUGAN K Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>VE101A : VALUE EDUCATION</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Introduction, meaning of values, concept, definition of values,
2	1	Applying high values and life response, the important of personal values, Definition of family,, family an agent of new society, moral values
3	1	The important of moral values, gender justice, religion inculcate values,
4	1	religion inculcate values, spiritual power reflect values, important of values education
5	1	making values live, process of implemented values in our lives, converting energy into forco
6	2	Introduction, Attitude, definition of Attitude, Attitude formation, Experience, Social factor
7	2	Learning, Attitude, and behavior, factors that influence attitude strength



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	2	Attitude can change to match behavior, learning theory of Attitude Change
9	2	Elaboration likelihood theory of Attitude change, Dissonance theory of Attitude change
10	3	Definition of positive psychology, the origins of modern day positive psychology, positive mental health
11	3	Positive mental health, the five key factor sustainable happiness, work and happiness
12	3	Quality of life, seligman modal of happiness, promoting well being
13	3	Practical exercise, identify character strength
14	3	Identify positive emotion
15	3	Life decision to show courage, what love means to you

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>ISABELLA</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>LEC202A : COMMUNICATIVE ENGLISH - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Indian women- S.Radhakrishnan ( prose) Importance of effective communication in business context
2	2	Face to face communication with customers and visitors Basic skills for talking to people in transactional situations Receiving visitors
3	1	The solitary reaper - William Wordsworth Standard business letters Applying for jobs, preparing resumes
4	2	Booking Hotel Accommodation Making small talk and telling stories Group discussions.
5	2	The Purple dress- O Henry ( prose) Preparing for interviews Taking interviews
6	3	Promotion Interviews
7	3	I CIA

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Give us a Role model - Dr. A.P.J Abdul Kalam
9	4	Preparing agenda for meetings Writing minutes of meetings Making notes for business conversations.
10	4	Business promotions and Language for Advertising Negotiating
11	4	Communication skills with public, fellow employees, supervisors and customers Soft skills for team building
12	4	Team maintenance and task maintenance roles Brainstorming and consensus- making Communication
13	5	Writing cover letters for resumes
14	5	Revision
15	5	II CIA

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>CM101Q : FINANCIAL ACCOUNTING - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Accounting- Meaning, Definition, Types of accounting, Accounting concepts and Conventions, Advantages and disadvantages of Accounting.
2	1	Double Entry System- Accounting Rules, Journal, Ledger, Subsidiary Books, Trail Balance,
3	1	Preparation of Profit and loss A/c and Balance Sheet- Uses of Financial Statement- Accounting of sole trading concern and on-Trading concern.
4	2	Single Entry System- Meaning and Definition, Difference between single Entry System and Double Entry System- Difference between Balance Sheet and Statement of Affairs
5	2	Net worth Method - Conversion Method
6	2	Preparation of Profit and Loss a/c
7	3	Accounting for Non-trading concerns- Meaning and Definition,

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Income, Expenditure, General and Special Funds
9	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet
10	4	Consignment-Meaning-Accounting for consignment transaction
11	4	stock valuation-preparation of consignmentA/c
12	4	Normal loss and abnormal loss calculation
13	5	Joint Venture-Meaning and Definition-Difference between partnership and joint venture
14	5	Journal entries for Joint Venture transactions when a separate book for the joint venture is maintained
15	5	Revision

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>SAMBATH.S Dr</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>2</b>
Subject	<b>CM203T : FINANCIAL ACCOUNTING - II</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Average DueDate, Meaning and uses of Average Due date, Basic types
2	1	Problems in Average Due date-Calculation of Interest
3	1	Account current- meaning, counting of days methods of calculating interest-simple problems.
4	2	Branch - meaning, types of Branches -Dependent Branches
5	2	Accounting in respect of Dependent branches - Debtorsystem - when goods are invoiced at cost price and selling price
6	2	stock and debtors system, wholesale branch system, and Finalaccount system - when goods are invoiced at cost price and selling price.
7	3	Meaning of departments and departmental accounting - Difference between branches and Departments

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Departmentalization of expenses-Inter Departmental Transfers at cost price and Selling price
9	3	Preparation of Departmental Trading and Profit&Lossaccount.
10	4	Accounting Treatments-Admission of Partner-Retirement of Partner
11	4	Death of a partner. Adjustments regarding Profit sharing ratio
12	4	Treat of goodwill Goodwill and Capital
13	5	Dissolution of the firm– Meaning and Modesofdissolution
14	5	Insolvencyofapartner-GarnerVs.Murrayrule. Insolvency of all partners
15	5	Piecemealdistribution–proportionate capital method-Maximum loss method

## INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

### LESSON PLAN

Name of the Staff	<b>KIRUTHIKA S</b>	Academic Year	<b>2022-2023</b>
Department	<b>Commerce</b>	Semester	<b>1</b>
Subject	<b>21AECM11 : BUSINESS ECONOMICS - I</b>	Course	<b>Commerce</b>

<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
1	1	Business Economics-Meaning -Definition-Nature& Scope of Business Economics.
2	1	Relationship of Business Economics and other disciplines-Objectives of Business Firm-Business Decision Making Process.
3	2	Demand –Meaning-Definition-Factors Influencing Demand.
4	2	Law of Demand – Exceptions to the Law of Demand .
5	2	Elasticity of Demand –Importance of Elasticity of Demand-Types of Elasticity of Demand.
6	3	Demand Forecasting -Meaning-Objectives of Demand Forecasting-Types of Forecasting.
7	3	Methods of Demand Forecasting-Survey method-Consumer survey Method-Expert opinion method- Statistical Methods-Trend Projection.



<b>Cycle</b>	<b>Unit</b>	<b>Topics to be covered / Activity to be carried out</b>
8	3	Criteria of a good forecasting method-Forecasting Demand for New Products.
9	4	Introduction-Factors of Production-Production Function .
10	4	Importance of Production Function –The Cobb-Douglas Production Function.
11	4	The Law of Variable Proportions – The Law of Returns to Scale.
12	5	Cost concepts - Short Run Cost curves- Marginal Cost, Average Cost-Total Cost- Total Fixed Cost, and Total Variable Cost.
13	5	Relationship between Average cost & Marginal cost-U-Shaped Long Run Average Cost Curve-L-Shaped Long-run Average Cost Curve.
14	5	Concept of Revenue-Average Revenue & Marginal Revenue.
15	1	Revision