

III B.A., English	POSTMODERN FICTION	Code: EN614A
Semester – VI		Hours: 5
Core Theory –XIII		CREDITS: 4

Objectives

1. To help students understand the transition from modernism to postmodernism
2. To make students learn the tenets of Postmodernism through the novels prescribed.

Course Outcomes:

At the end of the course, students exhibit

CO1: Knowledge of the recent trends in the field.

CO2: Flares with different cultural aspects across the nation.

CO3: Analytical thinking.

CO4: Grasp of the existing social norms through literature.

CO5: Self-motivation to do research work.

SEMESTER III	COURSE CODE: EN614A					COURSE TITLE: Postmodern Fiction								HOURS:5	CREDITS:4
	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)									
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	MEAN SCORE	
CO1	4	3	4	5	5	4	4	4	4	5	3	4	4	4.0	
CO2	5	4	5	5	5	4	4	5	4	5	4	5	5	4.6	
CO3	5	5	4	4	5	5	5	5	4	4	4	5	4	4.5	
CO4	4	4	5	5	5	4	4	5	5	5	4	4	4	4.4	
CO5	4	4	3	4	4	4	5	5	5	4	4	4	5	4.2	
Mean Overall Score														4.3	

Result: The score of this course 4.3 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

The Value shows that the course has **VERY HIGH** association with programme outcomes and programme specific outcomes.

Unit I	Joseph Heller : Catch 22	15 hrs
Unit II	Ken Kesey : One Flew Over the Cuckoo's Nest	15 hrs
Unit III	Umberto Eco : Name of the Rose	15 hrs
Unit IV	Gabriel Garcia Marquez : One Hundred Years of Solitude	15 hrs
Unit V	John Barth : Giles Goat Boy ²	15 hrs

Text Books

1. Heller, Joseph. Catch 22. New Delhi: Corgi Books, 1989.
2. Kesey, Ken. One Flew Over the Cuckoo's Nest. London: Picador, 1973.
3. Eco, Umberto. The Name of the Rose. London: Vintage, 1908.
4. Marquez, Gabriel Garcia. One Hundred Years of Solitude. New Delhi: Milestone, 2000.
5. Barth, John Giles. Goat Boy. New York: Anchor Books, 1966.

Reference Books

1. Woods ,Tim. Beginning Postmodernism. Manchester: Manchester University Press, 2009
2. Docherty ,Thomas . Postmodernism: A Reader. Columbia: Columbia University Press, 1993.
3. Gerhard Hoffmann. From Modernism to Post Modernism: Concept and Strategies of Post Modern American Fiction. Netherlands: Rodopi, 2005

EXTERNAL EXAMINATION

QUESTION PATTERN

POSTMODERN FICTION – EN614A

Time: 3 Hours

Max. Marks: 75

Section – A (No Choice)

10 X 2=20

Section – B (Either or Type)

5 X 5 = 25

Section – C (3 out of 5)

3 X 10 = 30

TOTAL MARKS =75

II M.A., English	SUBALTERN LITERATURE From the year 2021	Code: PEN34B
Semester – III		Hours: 5
Core Theory – XII		CREDITS: 4

Objectives:

- To project the students to the life of marginalized people in any country.
- To provide an idea to the students regarding the subjected underclass in a society on whom the dominant power exerts its hegemonic influence.

Course Outcomes:

At the end of the Course the students

- CO1 Comprehend the problems of marginalized people.
CO2 Care for indigenous people around the world.
CO3 Perceive complicatedness of Women and how they are suppressed doubly.
CO4 Know the cultural Displacement by reading modern writer works.
CO5 Voice for Women and against Gender Discrimination

SEMESTER III	COURSE CODE: PEN34B					COURSE TITLE: Subaltern Literature								HOURS :5	CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	Mean score	
CO1	5	5	4	4	5	5	5	5	4	5	5	5	5	4.7	
CO2	5	5	4	5	5	5	5	5	3	5	5	5	5	4.7	
CO3	5	5	4	5	5	5	5	5	3	5	5	5	5	4.7	
CO4	5	5	5	5	5	5	5	5	3	5	5	5	3	4.7	
CO5	5	5	5	5	5	5	5	5	3	5	5	5	3	4.7	
Mean Overall Score														4.7	

Result: The score of this course 4.7 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

The value shows that the course has **VERY HIGH** association with programme outcomes and programme specific outcomes

Unit – I POETRY (DETAILED) 18 Hrs

1. Claude Mc Kay : Harlem Shadows
2. Siegfried Sassoon : A Subaltern
3. Rudyard Kipling : The Post that Fitted
4. Sir Henry Newbolt : A letter from the Front
5. Langston Hughes : I, Too, Sing America

Unit – II SHORT STORY (NON - DETAILED) 18 Hrs

1. BandhuMadhav : Poisoned Bread
2. JatinBala : On Firm Ground
3. Amitav Ghosh : In an Antique Land

Unit – III FICTION 18 Hrs

1. Bama : Sangathi
2. Mulk Raj Anand : Coolie
3. Sivakami : PazhayanaKazhidalum (In the Grip of Change)
4. ThakazhiSivasankara Pillai : Scavenger's Son

Unit – IV DRAMA (DETAILED) 18 Hrs

- Vijay Tendulkar : The Vultures

Unit – V: DRAMA (Non-DETAILED) 18 Hrs

1. Girish Karnad : Hayavadana
2. Athol Fugard : My Children! My Africa

Text Books:

1. Karnad, Girtish. Hayavadana, Oxford University Press, 1975, Print.
2. Fugard, Athol. My Children! My African. London: Faber and Faber, 1998, Print.
3. Anand, Mulk Raj. Coolie, New Delhi: Penguin Books, 2000. Print.

Reference Books:

1. Dalit Literature and African – American Literature. Ed. N.M. Aston. Prestige Books, New Delhi.2001.
2. GayatriSpivak. Encyclopedia Britannica. Chicago: Encyclopedia Britannica. Chicago: Encyclopedia Britannica, 2014.
3. Akhtar P. Khan, Can the Subaltern Speak? Indian Women and Feminist Writing. New Delhi Publisher, 1991.
4. Guha, Ranajit and GaytriChakravortySpivak. Ed. Selected Subaltern Studies. New York: Oxford University Press, 1988.
5. Prakash, Gyan. Subaltern Studies as Postcolonial Criticism. The American Historical Review, December, 1994.

QUESTION PAPER PATTERN

SUBALTERN LITERATURE

Code: 20PEN34

Section-A Total Marks-75

- I. Four Short Questions (covering all units) / Four Annotations (only from detailed texts)
(50 words) – 5x2=10
(5 out of 8)

Section-B

- II. Paragraph Questions (150 words) – 5x5=25
(5 out of 8)

Section-C

- III. Essay Questions (300 words) – 4x10=40
(4 out of 6)

Total - 75 Marks

Note: Questions must be taken covering all units in all the three sections

II M.A., English	ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS * From the year 2021	Code: EPEN35A
Semester – III		Hours: 5
Elective – III		CREDITS: 4

OBJECTIVES:

1. To train the students to prepare for NET / SET Examinations.
2. To help the students to gain a holistic understanding of different ages and different genres in English Literature.

COURSE OUTCOME:

- CO1 – To write NET / SET examinations with adequate knowledge.
CO2 – To get a comprehensive view of English Literature.
CO3 – To make the students apply, prepare and clear the competitive exams.
CO4 – To collect the various materials for preparation.
CO5 – To impart specific training necessary for writing competitive examinations.

SEMESTER III	COURSE CODE: EPEN35A					COURSE TITLE: ENGLISH LITERATURE FOR UGC EXAMINATIONS								HOURS :5	CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
CO	P O 1	P O 2	P O 3	P O 4	P O 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8	Mean score	
CO1	5	5	4	4	5	5	5	5	4	5	5	5	5	4.7	
CO2	5	5	4	5	5	5	5	5	3	5	5	5	5	4.7	
CO3	5	5	4	5	5	5	5	5	3	5	5	5	5	4.7	
CO4	5	5	5	5	5	5	5	5	3	5	5	5	3	4.7	
CO5	5	5	5	5	5	5	5	5	3	5	5	5	3	4.7	
Mean Overall Score														4.7	

Result: The score of this Course 4.7 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

The value shows that the course has **VERY HIGH** association with programme outcomes and programme specific outcomes

UNIT –I

Chaucer Age to Neo- Classical Age

Geoffrey Chaucer, William Shakespeare, Ben Jonson, Andrew Marvell, John Milton, John Dryden, Samuel Richardson, Daniel Defoe, Henry Fielding, Joseph Addison, Richard Steele, John Donne, Alexander Pope, Samuel Johnson

UNIT -II

Romantic Age to Twentieth Century

William Wordsworth, S.T. Coleridge, John Keats, P.B. Shelley, Walter Scott, Jane Austen, George Eliot, Alfred Lord Tennyson, Thomas Hardy, T.S. Eliot, W.B. Yeats, Samuel Beckett, D.H. Lawrence, G.B. Shaw, Graham Greene, H.G. Wells, Kazuo Ishiguro, Hilary Mantel

UNIT – III

Non- British Literature & ELT

A) Indian English Literature

Raja Rao, R.K. Narayan, Rohinton Mistry, Arundhati Roy, Girish Karnad, Rabindranath Tagore, Kamala Das, Badal Sircar, Meena Alexander.

B) American Literature

James Fenimore Cooper, Henry David Thoreau, Walt Whitman, Nathaniel Hawthorne, Edgar Allan Poe, Emily Dickinson, Mark Twain, Henry James, Upton Sinclair, Ernest Hemingway, Eugene O'Neill, William Faulkner, Tennessee Williams, John Updike

C) African Literature

Chinua Achebe, Wole Soyinka, Ben Okri, Buchi Emecheta, Nadine Gordimer, J.M. Coetzee, Bessie Head

D) Canadian Literature

Susanna Moodie, Alice Munro, Margaret Atwood, Michael Ondaatje, Margaret Laurence

E) English Language Teaching

Silent Way Method, Community Language Teaching, Total Physical Response, Suggestopedia

UNIT -IV

Rhetoric and Prosody

Anti – climax, Anti-thesis, Aphorism, Blank Verse, Epigram, Simile, Hyperbole, Metonymy, Oxymoron, Onomatopoeia, Paradox, Satire, Pathos, Zeugma

Literary Theory

- A) New Criticism & Russian Formalism
- B) Structuralism
- C) Post structuralism
- D) Deconstruction
- E) Feminism
- F) Marxism
- G) Cultural Studies
- H) Psychoanalysis
- I) Postcolonialism
- J) Postmodernism

UNIT – V (DESCRIPTIVE QUESTIONS ONLY)

Literary Genres and Movements

- A) Types of drama**(Morality Play, Mystery Play, Masque, Closet Drama, Absurd Drama)
- B) Types of Poem** (Ballad, Concrete Poem, Elegy, Curtal Sonnet, Epic, Ode)
- C) Types of Novel** (Epistolary Novel, Gothic Novel, Bildungsroman, Campus Novel, Picaresque Novel, Graphic Novel)
- D) Schools and Movements** (Black Mountain Poets, Beat Writers, Pylon School of Poets, Bloomsbury Group, Confessional School of Poets, Oxford Movement, Aesthetic Movement, Harlem Renaissance, Symbolist Movement)

Texts Books:

1. Baldick, Chris. *Dictionary of Literary Terms*. Oxford University Press, 2015.
2. Buchanan, Ian. *Dictionary of Critical Theory*. Oxford University Press, 2018.
3. D, Benet E., and Samuel Rufus. NET. SET.GO... English. N.P., 2014.
4. Jack.C.Richards, Theodore.S.Rodgers, *Approaches and Methods in Language Teaching*. Cambridge University Press, 2001.
5. Masih, K. Ivan. Et.al. *An Objective Approach to English Literature: For NET, JRF, SLET and Pre-Ph. D Registration Test*. Atlantic Publishers, 2007.

Reference Books:

1. Albert, Edward. *A History of English Literature*. Oxford University Press, 1979.
2. Bertens, Hans. *Literary Theory: The Basics*. Routledge, 2001.

Note:

- 1. The Question Setter must strictly choose questions only from the prescribed text and writers mentioned in the units.**
- 2. Units 1,2,3,4 are for Objective type Questions.**
- 3. Unit 5 is meant for Descriptive type Questions.**

Question Pattern for Semester Examination – 20EPEN35

(Theory - 75 marks; Internal - 25 marks)

Section – A – 80 MCQ's out of 100 (Covering Units 1, 2, 3 & 4) – $80 \times \frac{1}{2} = 40$

Section – B – 7 Descriptive type paragraphs out of 10 (Covering Unit 5) – $7 \times 5 = 35$

Total marks = 75

Note: The question setter must choose questions only from the prescribed texts and only from the above mentioned writers in all the 5 units.

Question pattern for I & II CIA

(for 50 marks)

Section – A – 60 MCQ's (No Choice) – $60 \times \frac{1}{2} = 30$ marks

Section – B – 4 paragraphs out of 6 – $4 \times 5 = 20$ marks

Total marks = 50 marks

II M.A., English	ADVANCED ACADEMIC WRITING* From the year 2021	Code: EPEN44A
Semester – IV		Hours: 6
Elective – IV		CREDITS: 4

Objective:

- To help the students identify a toolkit approach to Academic writing.
- To familiarize the students with research writing to write, rewrite, to document, edit, publish and present.
- To introduce the essential characteristics, major trends and techniques in research writing.
- To train the students gather, interpret, analyze and synthesize data or information.

Course Outcomes:

At the end of the Course the students

CO 1- Acquire good professional writing skills at academic junctions.

CO 2- Transform as a professionally tuned writer through mechanics of writing

CO 3- Produce good research works

CO 4- Change into a Journalist and builds media communication.

CO 5- Deliver the Technological equipments and supporting ideas

SEMESTER IV	COURSE CODE: EPEN44A					COURSE TITLE: Advanced Academic Writing								HOURS: 6	CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	Mean score	
CO1	5	5	4	4	5	5	5	5	4	5	5	5	5	4.7	
CO2	5	5	4	5	5	5	5	5	3	5	5	5	5	4.7	
CO3	5	5	4	5	5	5	5	5	3	5	5	5	5	4.7	
CO4	5	5	5	5	5	5	5	5	3	5	5	5	3	4.7	
CO5	5	5	5	5	5	5	5	5	3	5	5	5	3	4.7	
Mean Overall Score														4.7	

Result: The score of this course 4.7 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

The value shows that the course has **VERY HIGH** association with programme outcomes and programme specific outcomes

Unit – I Information Accession (Prewriting Techniques) 18 Hrs

- a) Note -taking
- b) Brain Storming
- c) Mind Mapping
- d) Writing Draft
- e) Language & Style, Research Proposal
- f) Thesis Statement

Unit – II Academic Writing 18 Hrs

- a) The Product Approach
- b) The Process Approach
- c) Summarizing, Paraphrasing & Synthesizing
- d) Feedback & Evaluation

Academic reading

- a) Strategies & Skills
- b) Categorizing Reading Sources
- c) Reading for Information
- d) Reading Comprehension & Vocabulary

Unit – III The Mechanics of Writing 18 Hrs

- 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

Unit – IV Writing Process /Synthesizing Information & Citing Resources 18 Hrs

- a) Bibliography
- b) Annotated Bibliography
- c) Parenthetical Documentation
- d) Plagiarism and Academic Integrity
- e) Readability
- f) Sample Reference Books:

Unit – V 18 Hrs

a) Speaking for Academic Purposes

Lectures, Seminars, Oral Presentation, Verbalizing Data, Individual Speech Difficulties.

b) Reference / Research Skills.

Dictionaries, Books, Using The Library, Reference Books:, Introspect and Discuss.

Text Books:

1. Gibaldi, Joseph. MLA Handbook for writers of research papers: 7th edition, 2009.
2. Jordan, R.R. English for Academic purpose – A guide and resource book for teachers Cambridge University Press, 1997.

Reference Books:

1. Coffin, Caroline ET.AI. Teaching Academic Writing – A toolkit for Higher Education
London: Routledge, 2003.
2. Berry, Ralph. The Research project – How to write it. London: Roultege, 2004.

QUESTION PAPER PATTERN**ADVANCED ACADEMIC****Section-A**

- I. Short Questions (50 words) – 5x2=10
(5 out of 8)

Section-B

- II. Paragraph Questions (150 words) – 5x5=25
(5 out of 8)

Section-C

- III. Essay Questions (300 words) – 4x10=40
(4 out of 6)

Total - 75 Marks

Note: Questions must be taken covering all units in all the three sections

I B.Sc., SEMESTER – I PART – IV	PROFESSIONAL ENGLISH FOR LIFE SCIENCES - I	CODE:PELS01A
		HRS / WK 1
		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
- To develop strategic competence that will help in efficient communication
- To sharpen students' critical thinking skills and make students culturally aware of the target situation.

LEARNING OUTCOMES:

- Recognise their own ability to improve their own competence in using the language
- Use language for speaking with confidence in an intelligible and acceptable manner
- Understand the importance of reading for life
- Read independently unfamiliar texts with comprehension
- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER – I		COURSE CODE: PELS01A		COURSE TITLE: PROFESSIONAL ENGLISH FOR LIFE SCIENCES - I								HOURS:1		CREDITS:1	
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
Co	P O1	P O2	P O3	PO 4	P O5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score	
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5	
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7	
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3	
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4	
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7	
Mean Overall Score														4.1	

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

Units	Content
Unit 1	Listening- Listening to Instructions
	Imperatives
	Speaking- Role play Modals
Unit 2	Reading-Skimming & Scanning
	Learning new words and concepts One word substitutes
	Writing- Developing story from Pictures
Unit 3	Listening- Listening to Interviewers
	Speaking- brainstorming
	Small group discussions
Unit 4	Reading- comprehension passages
	Writing- essay writing
	Collocational and idiomatic use of vocabulary
Unit 5	Listening- listening comprehension
	Speaking- Negotiation & Mind Mapping
	Reading- note making
	Writing – process description Compare and contrast Sentence definition and extended definition

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I & II

I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I	PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT - I	CODE:PECM01A
SEMESTER – I		HRS / WK 1
PART – IV		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
- To develop strategic competence that will help in efficient communication
- To sharpen students' critical thinking skills and make students culturally aware of the target situation.

LEARNING OUTCOMES:

- Recognise their own ability to improve their own competence in using the language
- Use language for speaking with confidence in an intelligible and acceptable manner
- Understand the importance of reading for life
- Read independently unfamiliar texts with comprehension
- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER – I		COURSE CODE: PECM01A				COURSE TITLE: PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT - I						HOURS:1		CREDITS:1
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S
Co	P O1	P O2	P O3	PO 4	P O5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7
Mean Overall Score														4.1

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

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QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I & II
I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I	PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - I	CODE:PEPS01A
SEMESTER – I		HRS / WK 1
PART – IV		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
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- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER – I		COURSE CODE:				COURSE TITLE: PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - I					HOURS:1		CREDITS:1		
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
Co	P O1	P O2	P O3	PO 4	P O5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score	
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5	
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7	
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3	
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4	
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7	
Mean Overall Score														4.1	

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT 1: COMMUNICATION

Listening: Listening to audio text and answering questions - Listening to Instructions

Speaking: Pair work and small group work.

UNIT 2: DESCRIPTION

Reading: Skimming/Scanning- Reading passages on products, equipment and gadgets.

Writing: Process Description –Compare and Contrast Paragraph-Sentence Definition and Extended definition- Free Writing.

Vocabulary: Register specific -Incorporated into the LSRW tasks.

UNIT 3: NEGOTIATION STRATEGIES

Listening: Listening to interviews of specialists / Inventors in fields (Subject specific)

Speaking: Brainstorming. (Mind mapping). Small group discussions (Subject- Specific)

Vocabulary: Register specific - Incorporated into the LSRW tasks

UNIT 4: PRESENTATION SKILLS

Reading: Reading Comprehension passages

Writing: Writing Recommendations Interpreting Visuals inputs

Vocabulary: Register specific - Incorporated into the LSRW tasks

UNIT 5: CRITICAL THINKING SKILLS

Listening: Listening comprehension- Listening for information.

Speaking: Making presentations (with PPT- practice).

Reading: Comprehension passages –Note making. Comprehension: Motivational article on Professional Competence, Professional Ethics and Life Skills)

Writing: Problem and Solution essay– Creative writing –Summary writing

Vocabulary: Register specific - Incorporated into the LSRW tasks

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I & II

I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I	PROFESSIONAL ENGLISH FOR LIFE SCIENCES - II	CODE:PELS02A
SEMESTER – II		HRS / WK 1
PART – IV		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
- To develop strategic competence that will help in efficient communication
- To sharpen students' critical thinking skills and make students culturally aware of the target situation.

LEARNING OUTCOMES:

- Recognise their own ability to improve their own competence in using the language
- Use language for speaking with confidence in an intelligible and acceptable manner
- Understand the importance of reading for life
- Read independently unfamiliar texts with comprehension
- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER –II		COURSE CODE: PELS02A				COURSE TITLE: PROFESSIONAL ENGLISH FOR LIFE SCIENCES - II						HOURS:1		CREDIT S:1
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S
Co	P O1	P O2	P O3	PO 4	P O5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7
Mean Overall Score														4.1

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

Units	Content	Pageno
Unit1	Listening- Listening to lectures by specialists and answering comprehension exercises	
	Speaking: Debate	
	Just a minute (JAM)	
Unit2	Reading- Reading text on advertisement	
	Writing: Persuasive essay	
Unit3	Listening- Interviews with subject specialists and its skills	
	Speaking-Interviews with subject specialists and its skills	
Unit4	Reading- Essay on creativity and imagination	
	Writing- basic script writing for short films -creating vlogs, flyers	
	Speaking-short academic presentation using powerpoint	
	Reading- Minutes of meeting	
	Writing–Punctuations(comma, semicolon, brackets etc)	
Unit 5	Speaking – Short Academic Presentation Using Powerpoint	
	Writing – Product Profiles, Circulars, Minutes of Meeting, Writing an Introduction, Paraphrasing, Punctuation, Capitalization.	

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I & II
I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I	PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT - II	CODE:PECM02A
SEMESTER – II		HRS / WK 1
PART – IV		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
- To develop strategic competence that will help in efficient communication
- To sharpen students' critical thinking skills and make students culturally aware of the target situation.

LEARNING OUTCOMES:

- Recognise their own ability to improve their own competence in using the language
- Use language for speaking with confidence in an intelligible and acceptable manner
- Understand the importance of reading for life
- Read independently unfamiliar texts with comprehension
- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER –II		COURSE CODE: PECM02A				COURSE TITLE: PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT - II						HOURS:1		CREDITS:1
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S
Co	P O1	P O 2	P O 3	PO 4	P O 5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7
Mean Overall Score														4.1

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

CONTENTS

- UNIT - I SOME SPECIFIC BUSINESS AND ECONOMIC
VOCABULARY
- UNIT- II PERSUASIVE COMMUNICATION
- UNIT-III DIGITAL COMPETENCE
- UNIT - IV CREATIVE AND IMAGINATION
- UNIT - V WORK PLACE COMMUNICATION

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I & II

I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I	PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - II	CODE:PEPS02A
SEMESTER – I		HRS / WK 1
PART – IV		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
- To develop strategic competence that will help in efficient communication
- To sharpen students' critical thinking skills and make students culturally aware of the target situation.

LEARNING OUTCOMES:

- Recognise their own ability to improve their own competence in using the language
- Use language for speaking with confidence in an intelligible and acceptable manner
- Understand the importance of reading for life
- Read independently unfamiliar texts with comprehension
- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER – I		COURSE CODE: PEPS02A				COURSE TITLE: PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - II					HOURS:1		CREDITS:1		
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
Co	P O1	P O2	P O3	PO 4	P O5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score	
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5	
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7	
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3	
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4	
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7	
Mean Overall Score														4.1	

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT 1: COMMUNICATION

Listening: Listening to audio text and answering questions - Listening to Instructions

Speaking: Pair work and small group work.

UNIT 2: DESCRIPTION

Reading: Skimming/Scanning- Reading passages on products, equipment and gadgets.

Writing: Process Description –Compare and Contrast Paragraph-Sentence Definition and Extended definition- Free Writing.

Vocabulary: Register specific -Incorporated into the LSRW tasks.

UNIT 3: NEGOTIATION STRATEGIES

Listening: Listening to interviews of specialists / Inventors in fields (Subject specific)

Speaking: Brainstorming. (Mind mapping). Small group discussions (Subject- Specific)

Vocabulary: Register specific - Incorporated into the LSRW tasks

UNIT 4: PRESENTATION SKILLS

Reading: Reading Comprehension passages

Writing: Writing Recommendations Interpreting Visuals inputs

Vocabulary: Register specific - Incorporated into the LSRW tasks

UNIT 5: CRITICAL THINKING SKILLS

Listening: Listening comprehension- Listening for information.

Speaking: Making presentations (with PPT- practice).

Reading: Comprehension passages –Note making. Comprehension: Motivational article on Professional Competence, Professional Ethics and Life Skills)

Writing: Problem and Solution essay– Creative writing –Summary writing

Vocabulary: Register specific - Incorporated into the LSRW tasks

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I & II

I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I B.A., ENGLISH	PROFESSIONAL ENGLISH FOR ARTS AND SOCIAL SCIENCES - I For all I END, TAE, HID Courses From Batch 2020	CODE:PEAS01A
SEMESTER – I		HRS / WK 1
PART – IV		CREDITS: 1

OBJECTIVES:

- To develop the language skills of students by offering adequate practice in professional contexts.
- To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
- To focus on developing students' knowledge of domain specific registers and the required language skills.
- To develop strategic competence that will help in efficient communication
- To sharpen students' critical thinking skills and make students culturally aware of the target situation.

LEARNING OUTCOMES:

- Recognise their own ability to improve their own competence in using the language
- Use language for speaking with confidence in an intelligible and acceptable manner
- Understand the importance of reading for life
- Read independently unfamiliar texts with comprehension
- Understand the importance of writing in academic life
- Write simple sentences without committing error of spelling or grammar

NB: All four skills are taught based on texts/passages.

SEMESTER – I		COURSE CODE: PEAS01A				COURSE TITLE: PROFESSIONAL ENGLISH FOR ARTS AND SOCIAL SCIENCES - I						HOURS:1		CREDIT S:1
COURSE OUTCOMES		PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S
Co	P O1	P O 2	P O 3	PO 4	P O 5	PS O1	PS O2	PS O3	PS O4	PS O5	PSO 6	PS O7	PSO 8	Mean score
CO1	5	5	4	1	5	5	5	5	5	4	5	5	5	4.5
CO2	5	5	4	1	5	5	5	2	2	2	4	4	5	3.7
CO3	5	5	3	1	5	5	5	4	4	4	5	5	5	4.3
CO4	5	5	5	1	5	5	5	4	4	4	5	5	5	4.4
CO5	5	5	5	1	5	5	5	2	2	2	4	4	4	3.7
Mean Overall Score														4.1

Result: The score of this course 4.1 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I: COMMUNICATION**3 HRS****Listening:** Listening to audio text and answering questions

- Listening to Instructions

Speaking: Pair work and small group work.**Vocabulary:** Register specific - Incorporated into the LSRW tasks**UNIT II: DESCRIPTION****3 HRS****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 into the LSRW tasks.**UNIT III: NEGOTIATION STRATEGIES****3 HRS****Listening:** Listening to interviews of specialists / Inventors in fields
(Subject specific)**Speaking:** Brainstorming. (Mind mapping).

Small group discussions (Subject- Specific)

Vocabulary: Register specific - Incorporated into the LSRW tasks**UNIT IV: PRESENTATION SKILLS****3 HRS****Reading:** Reading Comprehension passages**Writing:** Writing Recommendations

Interpreting Visuals inputs

Vocabulary: Register specific - Incorporated into the LSRW tasks**UNIT V: CRITICAL THINKING SKILLS****3 HRS****Listening:** Listening comprehension- Listening for information.**Speaking:** Making presentations (with PPT- practice).**Reading :** Comprehension passages –Note making.Comprehension: Motivational article on Professional Competence,
Professional Ethics and Life Skills)**Writing:** Problem and Solution essay– Creative writing –Summary writing**Vocabulary:** Register specific - Incorporated into the LSRW tasks

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH

PROFESSIONAL ENGLISH – I
I B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

I B.A., ENGLISH	PROFESSIONAL ENGLISH FOR ARTS AND SOCIAL SCIENCES- II For I END, TAE, HID Courses From Batch 2020	CODE:PEAS02A
SEMESTER – II		HRS / WK 1
PART – IV		CREDITS: 1

Objectives:

- The Professional Communication Skills Course is intended to help Learners in Arts and Science colleges,
- Develop their competence in the use of English with particular reference to the workplace situation.
- Enhance the creativity of the students, which will enable them to think of innovative ways to solve issues in the workplace.
- Develop their competence and competitiveness and thereby improve their employability skills.
- Help students with a research bent of mind develop their skills in writing reports and research proposals.

SEMESTER II	COURSE CODE: PEAS02A					COURSE TITLE: PROFESSIONAL ENGLISH FOR ARTS AND SOCIAL SCIENCES II								HOURS:1	CREDITS:1
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
CO	P O 1	P O 2	P O 3	P O 4	P O 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8	MEAN SCORE	
CO1	5	5	4	4	5	5	5	5	3	5	5	5	3	4.5	
CO2	5	5	4	5	5	5	5	5	4	5	5	3	4	4.6	
CO3	5	5	4	5	5	5	5	5	3	4	5	4	5	4.6	
CO4	4	5	5	5	5	4	5	5	4	5	5	5	3	4.6	
CO5	5	5	5	5	4	5	5	5	3	4	5	5	3	4.5	
Mean Overall Score														4.5	

Result : The score of this course 4.5 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

The value shows that the course has **VERY HIGH** association with programme outcomes and programme specific outcomes

Unit I- Communicative Competence**3 HRS**

Listening – Listening to two talks/lectures by specialists on selected subject specific topics - (TED Talks) and answering comprehension exercises (inferential questions)

Speaking: Small group discussions (the discussions could be based on the listening and reading passages- open ended questions)

Unit II - Persuasive Communication**3 HRS**

Reading: reading texts on advertisements (on products relevant to the subject areas) and answering inferential questions

Writing: dialogue writing- writing an argumentative /persuasive essay.

Unit III- Digital Competence**3 HRS**

Listening to interviews (subject related)

Speaking: Interviews with subject specialists (using video conferencing skills)

Creating Vlogs (How to become a vlogger and use vlogging to nurture interests – subject related)

Unit IV - Creativity and Imagination**3 HRS**

Reading: Essay on Creativity and Imagination (subject based)

Writing – Basic Script Writing for short films (subject based)

- Creating webpages, blogs, flyers and brochures (subject based)

- Poster making – writing slogans/captions(subject based)

Unit V- Workplace Communication& Basics of Academic Writing **3 HRS**

Speaking: Short academic presentation using PowerPoint

Reading & Writing: Product Profiles, Circulars, Minutes of Meeting.

Writing an introduction, paraphrasing

QUESTION PATTERN I YEAR UG - PROFESSIONAL ENGLISH - II

PROFESSIONAL ENGLISH – II

I Year – B.A./B.Sc./B.Com/BBM/BBA(CA)/BCA

QUESTION PATTERN FOR ALL I YEAR UG

Time: 2 hours Marks: 50

Internal Exam

Internal 1 Marks + Internal 2 Marks = Semester Mark

PART – A

5 X 10 = 50

5 Essay type questions

II B.A., ENGLISH	COMMUNICATIVE ENGLISH – III B.A., B.Sc.,	CODE: LE303A
SEMESTER – III		HRS / WK 4
PART – II ENGLISH		CREDITS: 3

OBJECTIVES:

To make students acquire Basic English Skills-Listening, Speaking, Reading and Writing.
To help them taste the essence of language through literature.
To imbibe values for life, touching upon the different facts of literature.

Course Outcomes:

At the end of the course students

CO1: Narrate simple experiences in a coherent manner.

CO2: Make use of the students to practice the situational basic skills.

CO3: Different types of warm up activities to discuss the theme of the play.

CO4: Comprehend the local and global issues and using writing skills.

CO5: Enhance their language Skills and understanding the social and literatures.

SEMESTER III	COURSE CODE: LE303A					COURSE TITLE: COMMUNICATIVE ENGLISH III								HOURS 4	CREDITS:3
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
CO	P O 1	P O 2	P O 3	P O 4	P O 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8	Mean score	
CO1	5	5	4	4	5	5	5	5	3	5	5	5	3	4.5	
CO2	5	5	4	5	5	5	5	5	4	5	5	5	5	4.8	
CO3	5	5	4	5	5	5	5	5	3	5	5	5	5	4.6	
CO4	5	5	5	5	5	5	5	5	3	5	5	5	3	4.6	
CO5	5	5	5	5	5	5	5	5	4	5	5	5	3	4.7	
Mean Overall Score														4.6	

Result : The score of this course 4.6 (**HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT- I **12 HRS**

I Listening: Narration

II Speaking:

Welcoming the gathering

Introducing a Guest to the audience

Thanking the gathering and organizers of an event

III Reading: One – Act Play :*Refund* – Fritz Kazinthy

IV Writing: Publicity Literature

UNIT–II **12 HRS**

I. Listening :

1. *Quit India* – Mahatma Gandhi (Prose)

2. *Tryst with Destiny* – Jawaharlal Nehru (Speech: Prose)

II. Speaking : Giving One’s Opinion on current National/ Social issues

III. Reading : One – Act Play : *The Bear* – Anton Chekhov

IV. Writing: Spotting Errors

UNIT – III **12 HRS**

I. Listening

1. *Gettysburg Address*- Abraham Lincoln (Speech: Prose)

2. *I have a Dream* – Martin Luther King (Speech: Prose)

II. Speaking

1. Preparing news items of local events and speaking about them

2. Sample News Item (Event)

III. Reading : One – Act Play : *The Hour of Truth* – Percival Wilde

IV. Writing : E- Mail Writing

UNIT – IV **12 HRS**

I. Listening

1. *Inaugural Address*– John. F. Kennedy (Speech: Prose)

2. *Prepared to Die*- Nelson Mandela (Speech: Prose)

II. Speaking : Presentation Skills

III. Reading : Autobiography : *Sorrows of Childhood* – Charles Chaplin

IV. Writing: Resume Writing

UNIT – V **12 HRS**

I. Listening: Some useful Expressions

II. Speaking : Speech Writing

III. Reading :

1. Biography: *Marie Curie*- Colin Mitchell

2. Biography: *Sarojini Naidu* – PadminiSengupta

IV. Writing: Minutes Writing

COMMUNICATIVE ENGLISH – III

Text Books:

1. Aravindakshan.T.Y, Vijayalakshmi.C.K, Sailaja. A.K. *Reading Literature In English*. Delhi: Cambridge University Press India. Pvt., Ltd., 2013. Print.
2. Board of Editors. *Break Through*. Hyderabad: Orient Blackswan, 2015. Print.
3. Board of Editors. *Lime Light-3 (An Anthology of Prose, Biography, Poetry, Short Story and One Act Plays)*. Chennai: SSK Publishers& Distributers, 2015. Print.
4. Board of Editors. *Lime Light-1 (An Anthology of Prose, Biography, Poetry, Short Story and One Act Plays)*. Chennai: SSK Publishers& Distributers, 2015. Print.
5. Board of Editors. *Sunlight-IV (An Anthology of Prose, Poetry, Drama and Language Items)*. Chennai: Anuradha Publications, 2016. Print.
6. Natarajan, Lalitha&Natesan, Sasikala. *English for Excellence (Short Stories and Biographies)* Chennai: Anuradha Publications, 2014. Print.
7. Pillai, Radhakrishna. G &Rajeevan.K. *Spoken English for You*. Chennai: Emerald Publishes,1994. Print.
8. Pillai, Radhakrishna.G, BaskaranNair.P&Rajeevan.k. *Written English for You*. Madras: Emerald Publishers, 1994. Print.
9. Seshadri,K.G, ed. *A Prism of Plays*. Chennai: Anuradha Publications, 2014. Print.
10. Sukumaran, Beena. *Indian Voices (An Anthology of Indian Writings In English)*. India: Cambridge University Press.Pvt Ltd, 2015.Print.
11. Suresh Kumar. E. *Essential English*. Hyderabad: Orient Blackswan, 2015. Print.

REFERENCE BOOKS:

1. Bhatnagar.R.P, Bhargava, Rajul, ed. *English for Competitive Examinations*. Chennai: Macmillan,2002. Print.
2. Dr. Ramesh, Sree. *English Through Literature (A Textbook For Undergraduate Studies)*. Hyderabad: Orient Blackswan, Pvt Ltd, 2013. Print.
3. Narayanaswami.V.R. *Strengthen Your Writing*. Kolkata: Orient Blackswan Pvt., Ltd., 2013. Print.

COMMUNICATIVE ENGLISH –III

SEMESTER-III

QUESTION PATTERN

Time: 3hrs

Marks: 75

Section-A (NO CHOICE) (10x2=20)

Short Answers:

Questions covering all the units except Publicity Literature, E Mail Writing, Resume Writing and Minutes Writing.

Section-B (EITHER OR TYPE) (5x5=25)

Paragraph Questions

5 Either Or type Questions Covering Listening, Speaking and Writing Skills of all the 5 Units Except *Tryst with Destiny, I have a Dream and Prepared to Die*

Section-C (3 Out Of 5) (3x10=30)

Essay Questions

5 Essay questions (300 words) covering the Reading Skill of all the 5 Units and only the following contents of Listening Skills *Tryst with Destiny, I have a Dream and Prepared to Die* .

II B.A., ENGLISH	COMMUNICATIVE ENGLISH – IV B.A., B.Sc., B.Com., BBM., BCA., BBA.,	LE404A
SEMESTER – IV		HRS / WK 4
PART – II ENGLISH		CREDITS: 3

OBJECTIVES:

1. To make students acquire Basic English Skills-Listening, Speaking, Reading and Writing.
2. To help them taste the essence of language through literature.
3. To imbibe values for life, touching upon the different facets of literature.

Course Outcomes:

At the end of the course students

CO1: Introduce themselves to the others through the soft skills.

CO2: Comprehend the local and global issues through the play and novel.

CO3: Different types of warm up activities can be used to group discussion.

CO4: Use the interactive skills through the negations and homophones in the text.

CO5: Enhance their language Skills and understanding the social background.

SEMESTER IV	COURSE CODE: LE404A					COURSE TITLE: COMMUNICATIVE ENGLISH IV								HOURS 4	CREDITS:3
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)								MEAN SCORE OF CO'S	
CO	P O 1	P O 2	P O 3	P O 4	P O 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8	Mean score	
CO1	5	5	4	5	5	5	5	5	5	4	5	5	5	4.8	
CO2	5	5	3	5	5	3	4	5	4	5	5	3	5	4.3	
CO3	5	5	4	3	3	4	3	4	4	4	2	3	5	3.7	
CO4	5	5	4	4	4	5	5	3	5	4	4	5	5	4.4	
CO5	5	5	4	5	3	5	5	5	4	5	4	4	5	4.5	
Mean Overall Score														4.3	

Result : The score of this course 4.3 (**VERY HIGH**)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT- I	12 HRS
I. Listening: Mock – Interviews / Actual Interviews	
II. Speaking:	
1. Facing an Interview	
2. Tele – Interviews	
III. Reading	
1. Drama: <i>Julius Caesar - Funeral Oration</i> – William Shakespeare	
2. Novel: <i>The Count of Monte Cristo</i> - Alexandre Dumas (Chapter 01-10)	
IV. Writing: Description	
UNIT- II	12 HRS
I. Listening: Words often confused	
II. Speaking: Seminar Skills	
III. Reading	
1. Drama: <i>Macbeth- He Kills Sleep</i> -William Shakespeare	
2. Novel: <i>The Count of Monte Cristo</i> - Alexandre Dumas (Chapter 11-20)	
IV. Writing : Idioms and Phrases	
UNIT- III	12 HRS
I. Listening:	
1. Homonyms and Similar words	
2. Tele – conferences	
II. Speaking:	
1. Handling Customers or Clients	
2. Receiving Visitors	
III. Reading	
1. Drama: <i>Henry IV (Part I) -Play out a Play</i> –William Shakespeare	
2. Novel: <i>The Count of Monte Cristo</i> - Alexandre Dumas (Chapter 21-30)	
IV. Writing: The use of Graphics	
UNIT- IV	12 HRS
I. Listening: Homophones	
II. Speaking:	
1. Booking Hotel Accommodation	
2. Making Small Talk and Telling Stories	
III. Reading	
1. Drama: <i>Patterns of Love – As You Like It</i> - William Shakespeare	
2. Novel: <i>The Count of Monte Cristo</i> - Alexandre Dumas (Chapter 31-40)	
IV. Writing Negotiations	
UNIT- V	12 HRS
I. Listening: Group Discussions	
II. Speaking:	
1. Making Appointments	
2. Cancelling and Rescheduling Appointments	
III. Reading	
1. Drama: <i>Hamlet – Churchyard</i> - William Shakespeare	

2. Novel: *The Count of Monte Cristo* - Alexandre Dumas
(Chapter 41-49)

IV. Writing : Writing Review of Books

COMMUNICATIVE ENGLISH- IV

Text Books:

1. Board of Editors. *Selected Scenes from Shakespeare's Plays*. Chennai: Emerald Publishers, 2000. Print.
2. Dumas, Alexandre. *The Count of Monte Cristo*. Madras: Macmillan, 1994. Print.
3. Green, David, ed. *Contemporary English Grammar Structures and Composition*. Delhi: Macmillan publishers, 1971. Print.
4. Narayanaswami, V.R. *Strengthen Your Writing*. Kolkata: Orient Blackswan Pvt., Ltd., 2003. Print.
5. Pillai, Radhakrishna. G & Rajeevan. K. *Spoken English for You*. Madras: Emerald, 1994. Print.
6. Sharma. R.C, Krishna Mohan. 4thed. *Business Correspondence and Report Writing (A Practical Approach to Business & Technical Communication)*. New Delhi: Tata MC Graw Hill Education Pvt Ltd., 2010. Print.
7. Suresh Kumar. E. *Essential English*. Hyderabad: Orient Blackswan, 2015. Print.
8. Tina Thoburn, Ruta Schlatterbeck and Ann Terry. *Macmillan English*. Newyork: Macmillan Publishing Co., 1982. Print.

REFERENCE BOOKS:

1. Bhatnagar, R.P. *English for Competitive Examinations*. Chennai: Macmillan, 2002. Print.
2. Rao, Prasana, N.D.V, *A Guide to Better English for Students (The Students Handbook)*. New Delhi: S. Chand & Company Ltd., 1992. Print.
3. Samson. T, Rajeevan, Geetha & Consultant Editor. *Interface 2*. Chennai: Cambridge University Press. 2008. Print.

COMMUNICATIVE ENGLISH –IV
II YEAR B.A., /B.Sc.,

SEMESTER-IV

QUESTION PATTERN

Time: 3hrs

Marks: 75

Section-A (No choice)

(10x2=20)

Objective and Short Answers:

Questions covering all units except speaking skills.

Section-B (Either or Type)

(5X5=25)

Questions only from speaking skills.

Interviews, Seminar Skills, Handling Customers, Receiving Visitors, Booking
Hotels, Making and Cancelling Appointments.

Graphics or Descriptions.

Negotiations or Group Discussions.

Writing Review of Books.

Section-C (3 Out of 5)

(3x10=30)

Essays 300 words

5 Essay type questions from the Reading Skill of all the 5 Units.

UG II YEAR	சித்தர் இலக்கியம் இரண்டாம் ஆண்டு	19TA305
SEMESTER – III	(B.A., Tamil)	HRS/WEEK – 6
Main – I		CREDIT – 4

அலகு1 :சித்தர்கள் அறிமுகம் - சித்தர்கள் - பெயர்க்காரணம் - சித்தர்களின் எண்ணிக்கை—18 என்கிறவரையறை—சித்தர்களின் வாழ்க்கைமுறை—சித்தர்களின் இறைக்கொள்கை—சித்தர்களின் மனிதஉடல்,உள்ளம்பற்றியசிந்தனைகள் - சித்தர் பாடல்கள் - சித்தர் பாடல்களில் இறை,உயிர் பற்றியகருத்துக்கள் - உடற் பயிற்சி,உள்ளப் பயிற்சி,மருத்துவம் முதலானவாழ்வியல் செய்திகள்.

அலகு2 :சிவவாக்கியர் - வல்லவாசல் ஒன்பதும் மருத்தடைத்தவாசலும் -எனத் தொடங்கும் பாடல் முதல் 10 பாடல்கள்.

பட்டினத்தார் - நெஞ்சொடுமகிழ்தல் - “அன்றுமுதல்”எனத் தொடங்கும் கண்ணிமுதல் 25 ஆம் கண்ணிவரை

அலகு3 :பாம்பாட்டிசித்தர் - அப்பற்றுநீக்கல் -120 ஆம் பாடல் முதல் 129ம் பாடல் வரை.

பத்திரகிரியார் பாடல்கள் - மெய்ஞானப் புலம்பல் - “ஆங்காரம்உள்ளடக்கி”எனத் தொடங்கும் கண்ணிமுதல் 25 ஆம் கண்ணிவரை.

அலகு4 :இடைக்காட்டுச்சித்தர் - 13ஆம் கண்ணிமுதல் 23ம் கண்ணிவரை

குதம்பைச்சித்தர் - “வெட்டவெளித்தனைமெய்யென்றுருப்பார்க்கு” எனத் தொடங்கும் கண்ணிமுதல் 22 ஆம் கண்ணிவரை.

அலகு5 :அகப்பேய் சித்தர் - “நஞ்சுண்ண”எனத் தொடங்கும் பாடல் முதல் “வந்தது மூன்றடியே”எனமுடியும் பாடல்வரை (1 முதல் 10 பாடல்கள்)

கடுவெளிச்சித்தர் - “வைதாரைக் கூட வையாதே”எனத் தொடங்கும் 25 ஆம் பாடல் முதல் 34 ஆம் பாடல் வரை.

பார்வை நூல்கள்: 1. சித்தர் இலக்கியம், மீ.பா. சோமசுந்தரம்,அண்ணாமலைப் பல்கலைக்கழகம்

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UG II YEAR	இலக்கணம் III யாப்பருங்கலக்காரிகை இரண்டாம் ஆண்டு	19TA306
Main – I	(B.A., Tamil)	HRS/WEEK – 6
PAPER – I		CREDIT – 5

அலகு1 :சங்ககாலம் - சங்க இலக்கியங்கள் - சங்கம் மருவியகாலம்

அலகு2 :பல்லவர் காலம் - சோழர் காலம் - நாயக்கர் காலம்

அலகு3 :சமயம் வளர்த்ததமிழ் சைவமும் தமிழும் - சமணமும் தமிழும் -
பௌத்தமும் தமிழும் - முகமதியமும் தமிழும் - ஐரோப்பியர் காலம்
கிறிஸ்துவமும் தமிழும்

அலகு4 :உரைநடைவளர்ச்சிதற்காலம் - தமிழில் சிறுகதைவளர்ச்சி-தமிழ் நாவல்
இலக்கியங்கள் - நாவலின் பிரிவுகள் துப்பறியும் நாவல்கள் - சமூகநாவல்கள் -
சரித்திரநாவல்கள் - நாடகத்தமிழ்

அலகு5 : 20-ஆம் நூற்றாண்டுக் கவிஞர்கள் - புதுக்கவிதை-ஹைகூ (குறும்பா) - நாட்டுப்புற
இலக்கியங்கள் - இணையதமிழ் - இதழியல் தோற்றமும் வளர்ச்சியும் - தகவல்
தொடர்புசாதனங்களில் தமிழ் - தமிழ் இதழியல் வரலாறு-அயல்நாடுகளில்
தமிழ் வளர்ச்சி - இசைத்தமிழ் வரலாறும்,வளர்ச்சியும்

பாடநூல்: 1. அமிர்தசாகர் இயற்றிய யாப்பெருங்கலம் (தெளிவுரை)

பார்வைநூல்: முனைவர் ச. திருஞானசம்பந்தம், கதிர் பதிப்பகம், தெற்குவீதி,
திருவையாறு.613 204.

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UG II YEAR	தமிழ் இலக்கியவரலாறு- முனைவர். அ. ஜெயம் இரண்டாம் ஆண்டு (B.A., Tamil)	19TA408
SEMESTER – IV		HRS/WEEK – 6
Elective –III		CREDIT – 5

அலகு1 :சங்ககாலம் - சங்க இலக்கியங்கள் - சங்கம் மருவியகாலம்

அலகு2 :பல்லவர் காலம் - சோழர் காலம் - நாயக்கர் காலம்

அலகு3 :சமயம் வளர்த்ததமிழ் சைவமும் தமிழும் - சமணமும் தமிழும் -

பௌத்தமும் தமிழும் - முகமதியமும் தமிழும் - ஐரோப்பியர் காலம்

கிறிஸ்துவமும் தமிழும்

அலகு4 :உரைநடைவளர்ச்சிதற்காலம் - தமிழில் சிறுகதைவளர்ச்சி-தமிழ் நாவல்

இலக்கியங்கள் - நாவலின் பிரிவுகள் துப்பறியும் நாவல்கள் -

சமூகநாவல்கள் -சரித்திரநாவல்கள் - நாடகத்தமிழ்

அலகு5 : 20-ஆம் நூற்றாண்டுக் கவிஞர்கள் - புதுக்கவிதை-ஹைகூ (குறும்பா) - நாட்டுப்புற

இலக்கியங்கள் - இணையதமிழ் - இதழியல் தோற்றமும் வளர்ச்சியும் -

தகவல்தொடர்புசாதனங்களில் தமிழ் - தமிழ் இதழியல் வரலாறு-அயல்நாடுகளில்

தமிழ் வளர்ச்சி - இசைத்தமிழ் வரலாறும்,வளர்ச்சியும்

பாடநூல் :1.முனைவர். அ. ஜெயம்,சந்திரலேகாவைத்தியநாதன்
(திருத்திய புது பதிப்பு),தமிழ் இலக்கியவரலாறு, ஜனதாபதிப்பகம்,
63,தம்பையாசாலை,மேற்குமாம்பலம்,சென்னை- 600 003

பார்வைநூல்: 1. முனைவர் மு. வரதராசனார்,தமிழ் இலக்கியவரலாறு.
2. எம்.ஆர்.ஆடைக்கலசாமி,தமிழ் இலக்கியவரலாறு,
பால்நிலாபதிப்பகம்.லயோலாநகர்,சென்னை- 600 024.
3. முனைவர் சி. பாலசுப்ரமணியன்,தமிழ் இலக்கியவரலாறு.
பாரிசென்னை- 600 108.
4. முனைவர்.பாக்கியமேரி - வகைமைநோக்கில் தமிழ்
இலக்கியவரலாறு. 41பி,சிப்கோ இண்டஸ்ட்ரியல் எஸ்டேட் நியூசெஞ்சரி புக
ஹவுஸ்,அம்பத்தூர்,சென்னை- 600 090.

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UG III YEAR	இலக்கணம் IV நம்பியகப்பொருள்	19TA509
SEMESTER – V	மூன்றாம் ஆண்டு	HRS/WEEK – 6
Main– I	(B.A., Tamil)	CREDIT – 5

அலகு1 :அகத்திணையியல்

அலகு2 :களவியல் - பாங்கியற்கூட்டம் முடிய

அலகு3 :களவியல் - பகற்குறிமுதல் வரைவிடைவைத்துப் பொருள்வயிற்
பிரிவு முடிய

அலகு4 :வரைவியல்

அலகு5 :கற்பியல்

பாடநூல்:1.நாற்கவிராசநம்பி இயற்றியநம்பியகப்பொருள் (தெளிவுரை)

பார்வைநூல்: முனைவர் ச. திருஞானசம்பந்தம்,கதிர் பதிப்பகம்,தெற்குவீதி,திருவையாறு.613
204.

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UG I YEAR	தமிழகவரலாறும் மக்கள் பண்பாடும் முதலாம் ஆண்டு	ATA101A
SEMESTER – I	(B.A., Tamil)	HRS/WEEK – 7
Allied – I		CREDIT – 4

அலகு 1 – தமிழகவரலாற்றுக்கான அடிப்படை ஆதாரங்கள்—தமிழகத்தின் இயற்கை அமைப்புகள் - வரலாற்றுக் காலத்துக்கு முந்திய தமிழகம்

அலகு 2 - சிந்துவெளி அகழ்வாராய்ச்சி பண்டைய தமிழரின் அயல்நாட்டுத் தொடர்புகள்

அலகு 3 - தமிழ் வளர்ந்தசங்கம் - சங்க இலக்கியம்

அலகு 4 - பண்டைத் தமிழரின் வாழ்க்கை

அலகு 5 - களப்பிரர்கள் - பல்லவர்கள் - தமிழகத்தின் நான்காம் நூற்றாண்டு முதல் ஒன்பதாம் நூற்றாண்டுவரையில் சமூகநிலை.

பாடநூல்:

1. தமிழகவரலாறும் மக்கள் பண்பாடும்

டாக்டர் கே.கே. பிள்ளை உலகத் தமிழாராய்ச்சி நிறுவனம் தரமணி, சென்னை 600 113.

பார்வை நூல்கள்:

- 1) வே.தி. செல்வம், தமிழகவரலாறும் பண்பாடும், மணிவாசகர் பதிப்பகம், சென்னை -108.
- 2) டாக்டர் அ.தட்சிணாமூர்த்தி, தமிழர் நாகரிகமும் பண்பாடும், யாழ் வெளியீடு, மேற்கு அண்ணா நகர், சென்னை— 4.

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UG I YEAR	தமிழகவரலாறும் மக்கள் பண்பாடும் முதலாம் ஆண்டு	ATA202A
SEMESTER – II	(B.A., Tamil)	HRS/WEEK – 7
Allied –II		CREDIT – 4

அலகு 1: சோழப் பேரரசின் தோற்றம் - சோழப் பேரரசின் வளர்ச்சியும் வீழ்ச்சியும் - சோழர் காலத்தில் தமிழரின் சமுதாயம்

அலகு 2: பாண்டியரின் ஏற்றமும் வீழ்ச்சியும் மதுரைநாயக்கர்கள்

அலகு 3: தமிழகத்தில் 13 முதல் 18 ஆம் நூற்றாண்டுவரை சமூகநிலை

அலகு 4 : ஐரோப்பியர் வரவு—பத்தொன்பதாம் நூற்றாண்டின் அரசியலும் தமிழகத்தின் சமூகநிலையும்

அலகு 5: இருபதாம் நூற்றாண்டில் தமிழகம்

பாடநூல்

தமிழகவரலாறும் மக்கள் பண்பாடும் - தமிழகவரலாறும் மக்கள் பண்பாடும் டாக்டர் கே.கே. பிள்ளை உலகத் தமிழாராய்ச்சி நிறுவனம் தரமணி,சென்னை 600 113.

பார்வை நூல்கள்:

- 1) வே.தி. செல்வம், தமிழகவரலாறும் பண்பாடும், மணிவாசகர் பதிப்பகம்,சென்னை -108
- 2) டாக்டர் அ.தட்சிணாமூர்த்தி,தமிழர் நாகரிகமும் பண்பாடும்,யாழ் வெளியீடு, மேற்கு அண்ணாநகர், சென்னை- 4.

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All UG I Year		EPDT201TA
Semester-II	Dynamics of personality	Hrs/Week-2
Paper-IV		Credit-2

Unit-1

Personality

Meaning – determinants of personality - biological factors - Physical Environment - psychological factors - familial determinants - cultural factors - Need for Personality Development - Guidelines to Improve Personality

Unit - II

Pro-social behavior

Introduction – objectives - pro-social behavior and altruism - pro-social behavior in emergency situations - factors affecting helping behavior - effects of positive mood - theoretical perspectives

Unit-III

Mental Health

Introduction of Health – definition - nature of mental health - determinants of mental health - biological factors - psychological factors - components of mental health - ways to enhance mental health

Unit-IV

Motivation

Definition - characteristics of motivation - classification of motives - sources of motivation - Maslow's hierarchy - goal setting theory - advantages of motivation and goal setting theory

Unit-V

Personality assessment

Meaning - Interview – observation - behavioral assessment - personality inventories - situational test - projective test - Rorschach Inkblot Test - Thematic Apperception Test (TAT) - Word Association Test - Sentence Completion Test.

UG II YEAR	TAMIL III (Language) இரண்டாம் ஆண்டு	LT303A
SEMESTER – III	(B.A., B.Sc.,)	HRS/WEEK – 4
Tamil- III		CREDIT – 3

அலகு- 1

- 1.1 சிலப்பதிகாரம் - குன்றக்குரவை
- 1.2 மணிமேகலை-உதயகுமரனைவாளாலெறிந்தகாதை

அலகு- 2

- 2.1 சீவகசிந்தாமணி-நாமகள் இலம்பம் (நாட்டு வளம்)
- 2.2 கம்பராமாயணம் - கைகேயி சூழ்வினைப் படலம்

அலகு- 3

- 3.1 பெரியபுராணம் - இளையான் குடி மாறநாயனார் புராணம்
- 3.2 தேம்பாவணி-சேதையோன் வெற்றிப் படலம்
- 3.3 சீறாப்புராணம் - நுபுவத்துக்காண்டம் - காம்மாப் படலம்

அலகு- 4

- 4.1 ஐம்பெருங்காப்பியங்கள்
- 4.2 ஐஞ்சிறுகாப்பியங்கள், பிறகாப்பியங்கள்
- 4.3 கிறித்துவக் காப்பியங்கள்
- 4.4 இசுலாமியக் காப்பியங்கள்

அலகு- 5

- 5.1 பண்பலைவானொலிநிகழ்ச்சித் தொகுப்பு
- 5.2 வாடிக்கையாளர் சேவைமைய அலுவலர்
- 5.3 சுற்றுலாவழிகாட்டி
- 5.4 கடிதங்கள்

5.5 பொதுக்கட்டுரை

பாடநூல் : 1. தமிழ்த்துறைவெளியீடு

பார்வைநூல்கள்: 1. தமிழ் இலக்கியவரலாறு,முனைவர். அ. ஜெயம், ஜனகாபதிப்பகம்.

2.வ.சுப. மாணிக்கம் : இரட்டைக்
காப்பியங்கள்,செல்லப்பாபதிப்பகம்,மீனாட்சிபுத்தகநிலையம்(விற்பனைஉரிமை),மதுரை-625
001,2007.

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UG II YEAR	TAMIL IV (Language) இரண்டாம் ஆண்டு (B.A., B.Sc.,)	LT404A
SEMESTER – IV		HRS/WEEK – 4
Tamil – IV		CREDIT – 3

அலகு- 1எட்டுத்தொகை

- 1.1 புறநானூறு- 184, 204
- 1.2 அகநானூறு- 219, 351
- 1.3 குறுந்தொகை- 20,210
- 1.4 நற்றிணை- 21,86
- 1.5 ஐங்குறுநூறு –அன்னாய் வாழிப்பத்து (1-5)
- 1.6 கலித்தொகை-குறிஞ்சிக் கலி (9,11)
- 1.7 பரிபாடல் - வையை 10ம் பாடல் 71 – 131

அலகு -2 பத்துப்பாட்டு

- 2.1. சிறுபாணாற்றுப்படை - 111-145, 235-261 (நல்லியக் கோடன் சிறப்பு)
- 2.2. முல்லைப் பாட்டு- 26 -79
- 2.3. மதுரைக் காஞ்சி- 238-270 (தலையாலங் கானத்துச் செருவென்ற

நெடுஞ்செழியனின் தமிழ் நிலத்தில் அமைந்த

ஐந்துநிலப்பகுதிகளின் பண்பும் வளமும்)

- 2.4. பட்டினப் பாலை - 1-59 (காவிரிப் பூம்பட்டினத்தின் சிறப்பு)

அலகு -3 திருக்குறள்

- 3.1. அறத்துப்பால் - விருந்தோம்பல்
- 3.2. பொருட்பால் - கல்லாமை
- 3.3. இன்பத்துப்பால் - குறிப்பறிதல்

அலகு -4 இலக்கியவரலாறு

- 4.1. எட்டுத்தொகை

- 4.2. பத்துப்பாட்டு
- 4.3. கீழ்க் கணக்கு நூல்களில் நீதி நூல்கள்

அலகு -5 மொழித்திறன்

- 5.1. பத்திரிக்கைகளில் செய்திவரைதல்
- 5.2. சுருக்கிவரைதல்
- 5.3. நேர்காணல்

பாடநூல் : 1. இளங்களை மற்றும் இளம் அறிவியல் பட்ட வகுப்பு
தமிழ்ப்பாடநூல் 1.தமிழ்த்துறைவெளியீடு

பார்வைநூல் : தமிழ் இலக்கியவரலாறு,முனைவர். அ. ஜெயம், ஜனகாபதிப்பகம்.

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II B.A., TAMIL	SOFT SKILLS	Code : NENSS401
Semester – IV		HRS / WK - 3
NME		CREDITS :2

UNIT – I:

8 HOURS

- Learning Skills
- Interview Skills
- Adaptability Skills

UNIT – II:

8 HOURS

- Non-Verbal Communication Skills
- Written Communication Skills
- Barriers to Communication

UNIT – III:

8 HOURS

- Emotional Intelligence Skills
- Stress Management and Time Management Skills
- Problem-Solving Skills

UNIT – IV:**8 HOURS**

Effective Teamwork Skills

Leadership, Assertiveness and Negotiation Skills

Teaching Personality Development

UNIT – V:**7 HOURS**

Formation of Attitude

Functions of Attitude

Components of Attitude: Emotional, Behavioral, Cognitive.

UG I YEAR	இக்கால இலக்கியம் முதலாம் ஆண்டு	TA101A
SEMESTER – I	(B.A., Tamil)	HRS/WEEK – 6
Main – I		CREDIT – 5

அலகு- 1 கவிதை

- 1 **பாரதியார்** - புதுமைப்பெண், பெண்மைவாழ்க, கண்ணன்பாட்டு (தாய்,சேவகன்,சுட்டும் விழிச்சுடர்தான்)
- 2 **பாரதிதாசன்** - சஞ்சீவிபர்வதத்தின் சாரல்
- 3 **அறிவுமதி**— நட்புக்காலம்,
அறிவுமதிசாரல்,
189,அபுபில்லாசாலை,
தியாகராயநகர்,சென்னை— 600007.

அலகு- 2 உரைநடை

உதிர்ந்தமலர்கள் - உ.வே.சா
உரைநடைத் தொகுப்பு
நியூ செஞ்சரி புக ஹவுஸ்

அலகு- 3 சிறுகதை

ஜெயகாந்தன் சிறுகதைகள் - அக்கினிப் பிரவேசம்,குருபீடம்,அக்ரஹாரத்துப் பூனை, சிலுவை,புதுச் செருப்புக் கடிக்கும், ஜெயகாந்தன் சிறுகதைகள், நேஷனல் பக்மிரஸ்ட் இந்தியா.

அலகு- 4 நாவல்

கருப்பின் குரல் - சா.கந்தசாமி

அன்னம்
எண்.1,நிர்மாநகர்,
தஞ்சாவூர் 613007.

அலகு- 5 நாடகம்

கௌதம் புத்தர் - முனைவர் கு.வெ.பாலசுப்பிரமணியம்
அய்யாநிலையம்,
தஞ்சாவூர் - 613006.

பார்வை நூல்கள்:

- 1 இரா. வல்லிக்கண்ணன் : புதுக்கவிதைதோற்றமும் வளர்ச்சியும்,எழுத்துபிரசுரம்,
திருவல்லிக்கேணி,சென்னை-5.
- 2 பாலா : புதுக்கவிதை ஒரு புதுப்பார்வை, அகரம், நிர்மலாநகர், தஞ்சாவூர் - 613 001,2006.

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UG I YEAR	இலக்கணம் I (நன்னூல் - எழுத்ததிகாரம்) முதலாம் ஆண்டு	TA102A
SEMESTER – I	(B.A., Tamil)	HRS/WEEK – 6
Main – II		CREDIT – 5

அலகு 1. எழுத்தியல்

அலகு 2. பதவியல்

அலகு 3. உயிரீற்றுப் புணரியல்

அலகு 4. மெய்யீற்றுப் புணரியல்

அலகு 5. உருப்புணரியல்

பாடநூல் : நன்னூல் - சொல்லதிகாரம் ,பவணந்திமுனிவர், காண்டிகைஉரை,

பார்வைநூல்: 1. முனைவர் ச. திருஞானசம்பந்தம், கதிர் பதிப்பகம். திருவையாறு.

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UG I YEAR	சிற்றிலக்கியம் முதலாம் ஆண்டு	TA203A
SEMESTER – II	(B.A., Tamil)	HRS/WEEK – 6

அலகு1 :கலம்பகம்—திருக்காவலூர்க் கலம்பகம் - ஊசல் (21பாடல்கள்)
(வீரமாமுனிவர்)

அலகு2 : தூது நெஞ்சுவிடு தூது – உமாபதிசிவாசாரியார்

அலகு3 :குறவஞ்சி— திருக்குற்றாலக் குறவஞ்சி (மலைவளம் மட்டும்)

அலகு4 :பாமாலை— சகலகலாவல்லிமாலை (குமரகுருபரர்)

அலகு5 :பிள்ளைத்தமிழ் - மீனாட்சியம்மைபிள்ளைத்தமிழ்

பாடநூல்: 1.நெஞ்சுவிடு தூது – உமாபதிசிவாசாரியார்
2.திருக்காவலூர்க் கலம்பகம் - வீரமாமுனிவர்)

பார்வை நூல்: தமிழ்ச் சிற்றிலக்கியங்கள், முனைவர். இரா.சந்திரசேகரன், சாரதாபதிப்பகம்.

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UG I YEAR	இலக்கணம் II	TA204A
SEMESTER – II	நன்னூல்- சொல்லதிகாரம்	HRS/WEEK – 6
Main- II	முதலாம் ஆண்டு	CREDIT – 5
	(B.A., Tamil)	

அலகு 1. பெயரியல்

அலகு 2. வினையியல்

அலகு 3. பொதுவியல்

அலகு 4. இடையியல்

அலகு 5. உரியியல்

பாடநூல் : நன்னூல் - சொல்லதிகாரம் ,பவணந்திமுனிவர், காண்டிகைஉரை,

பார்வைநூல்: முனைவர் ச. திருஞானசம்பந்தம், கதிர் பதிப்பகம். திருவையாறு.

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www.maduraiproject.com, www.tamilnation.org

UG III YEAR	காப்பியங்கள் மூன்றாம் ஆண்டு (B.A., Tamil)	TA510A
SEMESTER – V		HRS/WEEK – 6
Main – I		CREDIT – 5

அலகு 1 : சிலப்பதிகாரம் - மதுரைக்காண்டம் (அடைக்கலக்காதை, ஆய்ச்சியர் குரவை, வழக்குரைகாதை)

அலகு 2 : சீவகசிந்தாமணி—குணமாலையார் இலம்பகம் (பாடல் ஒன்றிலிருந்துகிளி சீவகனிடம் இருந்துவிடைபெறுதல் வரை)

அலகு 3 : கம்பராமாயணம் - யுத்தகாண்டம் - கும்பகர்ணன் வதைப்படலம் (முதல் 27 பாடல்கள் மட்டும்)

அலகு 4 : இரட்சண்யயாத்ரிகம் - நிதானிநட்புப்படலம்

அலகு 5 : சீறாப்புராணம்- தசைக் கட்டியபெண்ணுருஅமைத்தபடலம்

பார்வை நூல்கள்:

1. வ.சுப. மாணிக்கம் : இரட்டைக் காப்பியங்கள், செல்லப்பாபதிப்பகம், மீனாட்சிபுத்தக நிலையம்(விற்பனைஉரிமை), மதுரை-625001,2007.
2. மு. வரதராசனார் : இளங்கோ,கண்ணகி, மாதவிபாரிநிலையம், சென்னை-108.
3. தெ.பொ. மீனாட்சிசுந்தரனார் : குடிமக்கள் காப்பியம், மீனாட்சிபுத்தகநிலையம், மதுரை-625001,1974.
4. அ.ச.ஞானசம்பந்தன் : கம்பன் - புதியபார்வை, கம்பன் கழகவெளியீடு, வானதிபதிப்பகம், தி. நகர், சென்னை-17,1984.

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UG III YEAR	சங்க இலக்கியம் மூன்றாம் ஆண்டு (B.A., Tamil)	TA615A
SEMESTER – VI		HRS/WEEK – 6
Main – I		CREDIT – 4

அலகு 1 : நற்றிணை—21,25,28,30,54
குறுந்தொகை—7,10,40,51,110

அலகு 2 : ஐங்குறுநூறு—அன்னாய் வாழிபத்து
கலித்தொகை - முல்லைக்கலி 101 லிருந்து 105
அகநாநூறு—மணிமிடைப்பவளம் (136 -140)

அலகு3 :புறநானூறு-212,214,215,216,221

பதிற்றுப்பத்து - 2ஆம் பத்து (முதல் 5 தலைப்புகள்)
பரிபாடல் - 10வது பாடல் வையை (1 முதல் 70 வரிகள் வரை)

அலகு4 :பொருநர் ஆற்றுப்படை- 129-190

பெரும்பாணாற்றுப்படை- 441-480

அலகு5 :குறிஞ்சிப்பாட்டு - 101-261

பார்வை நூல்கள்:

1. எஸ்.வையாபுரிப்பிள்ளை : சங்க இலக்கியம்,பாரிநிலையம்,சென்னை, 2-ஆம் பதிப்பு,1967.
2. வ.சுப. மாணிக்கனார் : தமிழ்க் காதல்,பாரிநிலையம்,சென்னை,3-ஆம் பதிப்பு, 1980.
3. அரங்க. இராமலிங்கம் : சங்க இலக்கியத்தில் வேந்தர்,பாரிபுத்தகநிலையம், சென்னை-17, 3-ஆம் பதிப்பு, 2003.

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All UG I Year		VET101A
Semester-I	Value Education	Hrs/Week-2
Paper-IV		Credit-2

Unit-I

Values

Meaning of values – concept - accomplishment and psychological energy - process of implementing values in our lives - acquiring social values - family in process of value formation - importance of moral values - cultural values - religious values - importance of value education.

Unit-II

Attitude and Behavior

Attitude formation - social factors-learning - classical conditioning – operant conditioning-attitude and behavior - Factors that Influence Attitude Strength - Attitudes Can Change to Match Behavior - Learning Theory of Attitude Change

Unit-III

Positive psychology

Definition of Positive Psychology - Positive mental Health - The five keys for sustainable happiness - Factors that influence happiness - Seligman's Model of Happiness- Promoting well-being - Practical exercises - Identifying Positive emotions

Unit-IV

Creative Problem Solving

Principles of Creative Problem Solving - Divergent and Convergent Thinking - The Dynamic Balance of Creativity – guidelines for Divergent and Convergent Thinking -decision making-decision making process - group vs. individual decision making - Group Decision Making - Advantages and Disadvantages

Unit-V

Soft skill

Meaning - characteristics of leadership - importance of leadership skill - Role of the Leader of an Institution.- As a motivator - As moral builder - As a co-ordinator - As a confidence builder- As a professional person - As a human relationship person –enhancing leadership skill

Year - III B.A., HISTORY	CONTEMPORARY INDIA SINCE 1947	Code : 19HI511
Semester - V		Hours: 6
Core : XIV		Credit: 5

Objectives

- 1: To provide an exposure to the students on the developments of India after her Independence.
- 2: To enrich the knowledge of the student community on the components of congress and non-congress administrations, their internal and foreign policies.
- 3: To make the students understand on the progress achieved in planning, policy making and welfare measures.

Course Outcomes (CO)

- fundamental rights and duties, Indian legislature, Executive, Judiciary their powers and functions
- CO2:** Know about the administration of Congress and Non-Congress Governments, Indian Democracy, Centre State Relations towards the national integration and secularism.
- CO3:** Visualize the diversified policies initiated by Non-Congress Regimes towards progressive India
- CO4:** Be aware of the developments in Social Policies, science and Technology, Industry and Agriculture.
- CO1:** Understand the constitutional developments,

SEMESTER V	COURSE CODE: 19HI511					COURSE TITLE: CONTEMPORARY INDIA SINCE 1947					HOURS:6
COURSE OUTCOME (COs)	PROGRAMME OUTCOMES (POs)					PROGRAMME SPECIFIC OUTCOMES (PSOs)					CREDIT:5
CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	MEAN SCORE OF CO'S
C01	3	3	2	3	3	2	2	3	2	3	2.60
C02	2	1	3	2	3	3	3	3	3	3	2.60
C03	2	3	3	2	2	3	2	3	3	2	2.50
C04	3	3	2	2	3	3	2	3	3	3	2.70
	MEAN OVERALL SCORE										2.60

Result: The score of this course is 2.60 (Moderate)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **Moderate** association with Programme Outcome and Programme Specific Outcome.

Unit I - Political

Nehru Era – 1947 – 1964 – Foreign Policy - Democratic Socialism – Post – Nehru Era
 – Shastri 1964 – 66 - India Under Indira Gandhi (1967 – 84)
 Emergency – Advent of
 Janata Party - India Under Rajiv Gandhi (1984 – 90)
 Political Realignment and Emergence of National Front –
 Secularism and Communalism – Emergence of Dalit
 Movements – Politicization of religion and Regional
 Politics.

Unit II - Economy

Objective and Concept of 5 years planning – the concept of mixed Economy - Policy of Liberation, Globalization (Dunken Proposals) and privatization and its Economic implications – The origin of Trade Union Activities in

India and its growth and achievements; Labour Commission's concepts; Labour legislations to protect the labour class. The concept of population Education; Sex ratio; Family welfare planning, legislation and programmes; the socio & Economic impact of population Explosion.

Unit III - Society

Social welfare legislations on women and Children; National Educational Policy with special reference on new Educational Policy and reforms; UGC and other administration and Education organization; Reservations Policy.

Unit IV - Science and Technology;

Nuclear Policy and space science – Environment challenges – water atmosphere – earth pollution – Greenhouse effect.

Unit V - Culture

Contemporary music – Visual arts – cinema - Media Literature – Sports and Games – Tourism.

TEXT BOOKS:

1. Nanda, S.P *History of Modern India*, (1707-Present Time), New Delhi: Dominent Publishers, 2017.
2. Venkatesan, *History of Contemporary India*, 1944-2014, Sivakasi: V.C. Publications, 2016.
3. Atul Kumar Thakur, *India Since 1947 Looking Back at a Modern Nation*, New Delhi: Nyogi Books, 2013.
4. Bimal Prasads (ed,), *India's Foreign Policy Studies in Continuity andChanges*, India after Independence, NewDelhi: Vitastha Publishing Pvt.Ltd., 2012.
5. Subbian, A., *TheNehruEpoch:1947–1964*, Annamalainagar: Annamalai University Publications, 1988.

REFERENCE

BOOKS:

1. AnimashMullick, *Modern Indian History*, New Delhi, Wisdom Press, 2015
2. Nanda, B.R. (ed.), *Indian Foreign Policy, The Nehruyears*, Delhi: Vikas Publishing House 1986.
3. Alexander, M.K., *Mahatma Gandhi: A Political Biography*, London: Christopher Publishing House, 1969.
4. Norman and Dorthy, ed., *Nehru, The First Sixty Years*, 2Vols. London: *Oxford University Press*,1965.
5. Menon, V.P., *Integration of Indian States*, USA: Princeton,1962.

YEAR - II B.A HISTORY	HISTORY OF TAMIL NADU UPTO 850 A.D.	CODE:20HI306
SEMESTER - III		HRS/WK- 6
CORE - IX		CREDIT - 5

Objectives

- 1: To make the students aware about the various sources that help in understanding the history of early Tamilnadu
- 2: To be aware of the Sangam Tamils and their socio, political and economic conditions that existed during the period
- 3: To understand the origin and development of early art history of the tamils through the Pallava dynasty.

Course Outcome (CO)

CO1: The students will be aware about the various sources such as archaeological, inscriptional and literary sources on Tamil Nadu History

CO2: Be aware of the novel characteristics of the Sangam Society

CO3: Will be in a position to understand and analyse the political condition that existed till 885 C.E.

CO4: To be well versed in the evolution of art history in Tamil Country

SEMESTER III	COURSE CODE: 20HI306					COURSE TITLE:HISTORY OF TAMILNADU UPTO 850A.D					HOURS:6
COURSE OUTCOME (COs)	PROGRAMME OUTCOMES (POs)					PROGRAMME SPECIFIC OUTCOMES (PSOs)					CREDIT:5
CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	MEAN SCORE OF CO'S
CO1	3	3	2	3	3	2	2	3	2	3	2.60

CO2	2	2	3	2	2	3	3	3	3	3	2.60
CO3	3	3	3	1	1	3	2	3	3	2	2.40
CO4	3	3	3	2	2	3	2	3	3	3	2.70
	MEAN OVERALL SCORE										2.57

Result: The score of this course is 2.57 (Moderate)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **Moderate** association with Programme Outcome and Programme Specific Outcome

Unit- I

Geography - Sources – Archaeological Sources – Inscriptions – Copper Plates – Coins – Literary Evidences and Foreigners accounts

Unit - II

The Sangam Age – Sangam Polity – Sangam Society – Status of Women - Economic and Religious Conditions

Unit - III

The Age of Kalabhras

Unit -IV

Origin of the Pallavas – Mahendravarma I – Narasimhavarma I – Pallava Administration – Pallava Society – Pallava Economy – Bhakthi Movement

Unit -V

The First Pandyan Empire (575 C.E.-900 C.E.)
Kadungon – Arikesari

Maravarman – Rajasimha I – Varaguna I and Others -
Administration, Social and Economic Conditions **TEXT
BOOKS:**

1. Manoranjithamoni C., *History of Tamil Nadu Upto 1565 A.D.*, Tirunelveli: Dave- Beryl Publications, 2019.
2. Sadasiva Pandarathar, T.V., *PirkalaCholarVaralaru*, Annamalainagar: Annamalai University Publications, 2010
3. MannarMannan, *PallavarVaralaru* (Tamil), Chennai: Vikatan Pvt. Ltd,2004
4. Reveendran.T.K, *Tamizhaga Varalatri IKalapirar Kaalam* (Tamil), Chennai: Vikatan Pvt.Ltd.,2002
5. NilakandaSastri K.A., *A History of South India; Pre Historic Times to the fall of Vijayanagar; The Cholas; The Pandyan Kingdom*, New Delhi: Oxford University Press, 1997

REFERENCE BOOKS:

1. Pillai K.K., *History of Tamil Nadu- People and Culture* (Tamil), Madras: Mukil E Publishing and Solutions Private Limited,2015.
2. Subramanian N.; *History of Tamil Nadu*, Vol.I, Udumalaipet: ENNESS Publication, 1996
3. Subramanian N.; *Sangam Polity*, Udumalaipet: ENNESS Publication,1995.
4. Sastri K.A.N, *A History of South India*, Madras: Oxford University Press, 1980
5. Meenakshi C., *Administration and Social Life Under the Pallavas*, Madras: University of Madras, 1977.

YEAR – I B.A HISTORY	TRAVEL AGENCY AND HOSPITALITY MANAGEMENT	HI204S
SEMESTER - II		HRS/WK - 6
CORE - VII		CREDIT - 3

Objectives

- 1: To learn about the definition Travel Agency and hospitality Management.
- 2: To make the students to understand the Visa, Passport, Emigration, and Regulation of country.
- 3: To let the students aware of Travel Agencies, bank exchanging and Relation Support of Tourist development in India.

Course Outcome (CO)

CO1: Students will demonstrate knowledge of the growth of travel agencies in India.

CO2: Students will correctly extract evidence from primary sources by analyzing and understanding the concepts of banking exchange, regulation of passport and visa.

CO3: Students will evaluate primary sources like hospitality management like as well as travel agencies by analyzing them in relation to the that supports them their tourist development.

CO4: Students will acquire the knowledge of the accommodation, travel agencies and history of tourism.

SEMESTER II	COURSE CODE :HI204S					COURSE TITLE: TRAVEL AGENCY AND HOSPITALITY MANAGEMENT					HOURS:6
COURSE OUTCOME (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					CREDIT:3
CO	P01	P02	P03	P04	P05	PS01	PS02	PS03	PS04	PS05	MEAN SCORE OF CO'S

CO1	2	3	1	3	3	2	3	3	2	3	2.60
CO2	3	2	3	3	2	3	3	3	3	3	2.80
CO3	2	3	2	3	1	2	3	2	3	2	2.30
CO4	2	3	2	3	2	2	3	2	2	3	2.40
	MEAN OVERALL SCORE										2.52

Result: The score of this course is 2.52 (Moderate)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **Moderate** association with Programme Outcome and Programme Specific Outcome.

UNIT I

History and Growth of Travel Agency Business- Emergence of Thomas Cook- Indian Travel Agents and Tour Operators- Characteristics of Travel Agents and Tour operator- Business Trends of Travel Agency.

UNIT II

Travel Agencies: Profile, Role and Function of a Modern Travel Agency- Government rules for getting approval- IATA rules and regulations for accreditation- Sources of Earning- Entrepreneurial Skill for Travel, Tourism and Hospitality Trade.

UNIT III

Travel Regulations: Travel/ Tourist Guides and Guide craft- Passport/ Visa and Banking Exchange- Travel Formalities- Travel Insurance- Itinerary Preparation- Ticketing Procedures.

UNIT IV

Accommodation and Hospitality- Historical Evolution of Hospitality Industry- Global and Indian Context- Modes of Accommodation- Hotels and Motels- Star Hotels- Indian and International Hotel chains- Supplementary Accommodation- Granting Star Category.

UNIT V

Functional Units in Hotel Organizational Structure: Front Offices- Back Offices- Major Hotel Groups in India- hotel Plan- Types of Menu- Guest Relationship Management- Compliant Handling and Handling Emergencies.

TEXT BOOKS

1. Babu, Satish Tourism Development in India, New Delhi, 1998.
2. A.K.Bhatia International Tourism: Fundamental and Practices, New Delhi, 1991.
3. A.K.Bhatia Tourism Development: Principles and Practices, New Delhi, 1989.

REFERENCE BOOKS

1. ParnNath Seth and Sushma Seth Bhat - An Introduction to Travel and Tourism, New Delhi, 2003.
2. Sakthi Hotel Management, Chennai, 2000.
3. Jag Mohan Negi Professional Hotel Management, New Delhi, 2002.
- 4 .Sudir Andrews Hotel House Keeping Training Manuel, New Delhi, 1970.

YEAR – III	COMPLEX ANALYSIS-I For the students admitted from the year 2020	MT511A
SEMESTER –V		Hrs / Week: 5
CORE –XIII		Credit: 4

OBJECTIVES:

The course aims to introduce the concepts of complex numbers, functions of complex variables, limits and continuity, Cauchy Riemann equations and analytic functions, elementary functions, Definite integrals of functions.

COURSE OUTCOMES:

At the end of the course students will be able to

CO1: Analyze and solve problems using complex numbers.

CO2: Knowledge pertaining to functions of complex variables, limits and continuity.

CO3: Analyze and solve problems using Cauchy Riemann equations and analytic functions.

CO4: Knowledge pertaining to elementary functions.

CO5: Analyze and solve problems using Definite integrals of functions.

SEMESTER V	COURSE CODE: MT511A					COURSE TITLE: COMPLEX ANALYSIS-I										HOURS 5	CREDITS 4
COURSE OUTCOMES	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)										MEAN SCORE OF CO'S	
	P O 1	P O 2	P O 3	P O 4	P O 5	P S O 1	P S O 2	P S O 3	P S O 4	P S O 5	P S O 6	P S O 7	P S O 8	P S O 9	P S O 10		
CO1	4	4	3	5	4	3	4	4	3	4	3	5	4	3	4	3.8	
CO2	4	3	4	5	4	3	3	4	3	4	3	5	4	3	4	3.7	
CO3	3	4	3	5	4	3	4	4	3	4	3	4	5	3	4	3.7	
CO4	4	4	3	5	5	3	4	4	3	4	3	4	5	4	5	4.0	
CO5	3	4	4	5	5	3	3	4	3	4	3	4	4	4	5	3.9	
Mean Overall Score															3.8		

Result: The Score of this Course is 3.8 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

UNIT- I:

Regions in the complex plane- Functions of a Complex variable – Mappings - Mapping by the exponential function– Limits – Theorems on Limits – Limits involving the point at infinity

UNIT- II:

Continuity – Derivatives –Differentiation formulas- Cauchy-Riemann Equations-Sufficient Conditions for Differentiability-Polar Coordinates-

UNIT- III:

Analytic Functions-Examples-Harmonic Functions-Uniquely Determined Analytic Functions-Reflection Principle.

UNIT- IV:

The Exponential Function - The Logarithmic Function-Branches and Derivatives of Logarithms-Trigonometric Functions - Hyperbolic Function. Inverse Trigonometric and Hyperbolic function

UNIT- V:

Derivatives of Functions $w(z)$ - Definite Integrals of Functions $w(z)$ - Contours- Contour Integrals-Some Examples-Upper Bounds For Moduli of Contour Integrals- Antiderivatives-Proof of The Theorem-Cauchy-Goursat' Theorem- Proof of The Theorem (omit proof of the lemma).

TEXT BOOK:

1. Complex Variables and Applications, James Ward Brown, R. V. Churchill, McGraw – Hill International Edition (2009).
Unit-I: Chapter-1 (sec: 11), Chapter-2 (Sec: 12 -17)
Unit-II: Chapter-2 (Sec: 18 -23),
Unit-III: Chapter-2 (Sec: 24-28),
Unit-IV: Chapter-3 (Sec: 29-36),
Unit-V: Chapter-4 (Sec: 37-47).

REFERENCE BOOKS:

1. Functions of a Complex Variable”, J.K.Goyal , K.P. Gupta(18th Revised), Enlarged Edition 2004, Pragathi Prakashan Publishers, Meerut, UP.
2. P.Duraipandian and Laxmi Duraipandian(1976), “Complex Analysis”, Emerald Publishers, Chennai.
3. S.Ponnusamy(2000), “Foundations of Complex Analysis”, Narosa Publishing House, New Delhi.
4. Murray R. Spiegel(2005), “Theory and Problems of Complex Variable”, Tata-McGraw Hill Edition, New Delhi

YEAR – III	MECHANICS For the students admitted from the year 2020	EMT512A
SEMESTER –V		Hrs / Week: 5
ELECTIVE-I		Credit: 4

OBJECTIVES:

The course aims to introduce the concept of type of forces, magnitude and direction, kinematics, projectiles, central orbital, momentum of inertia.

COURSE OUTCOMES:

At the end of the course students will be able to

CO1: Analyze and solve problems of types of forces and resultant of the force.

CO2: Knowledge pertaining to kinematics and work, power, energy and Simple Harmonic mean.

CO3: Analyze and solving problems using projectiles.

CO4: Knowledge pertaining to solve problems using central orbit.

CO5: Analyze and solving problems about momentum of inertia.

SEMESTER V	COURSE CODE EMT512A					COURSE TITLE: MECHANICS										HOURS 5	CREDITS 4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)										MEAN SCORE OF CO'S	
	PO 1	P O 2	P O 3	P O 4	P O 5	P S O 1	P S O 2	P S O 3	P S O 4	P S O 5	P S O 6	P S O 7	P S O 8	P S O 9	PS O 10		
CO1	4	4	3	5	4	3	4	4	3	4	3	5	4	3	4	3.8	
CO2	4	3	4	5	4	3	3	4	3	4	3	5	4	3	4	3.7	
CO3	3	4	3	5	4	3	4	4	3	4	3	4	5	3	4	3.7	
CO4	4	4	3	5	5	3	4	4	3	4	3	4	5	4	5	4.0	
CO5	3	4	4	5	5	3	3	4	3	4	3	4	4	4	5	3.9	
Mean Overall Score															3.8		

Result: The Score of this Course is 3.8 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

UNIT-I FORCE:

Types of Forces- Magnitude and direction of the resultant of the force acting on a particle – Triangle law of Force –Lami’s Theorem.

UNIT-II KINEMATICS:

Work, Power, Energy, Principle of Work and Energy. Rectilinear motion with uniform acceleration. Simple Harmonic Motion.

Velocity and Acceleration Components in Co-planar motion along

[a] Two fixed perpendicular directions,

[b] Tangential and Normal Directions,

[c] Radial and Transverse directions (in polar co-ordinates) .

UNIT-III PROJECTILES

Motion of the Projectile, nature of Trajectory, Result Pertaining to the motion of the projectile, range on an inclined plane.

UNIT-IV CENTRAL ORBIT

Central Forces and Central Orbit, Equation of Central orbit, Finding Law of Force and Speed of a given orbit, finding the orbit given the Law of Force.

UNIT-V MOMENT OF INERTIA

Moment of Inertia of Simple Body, Theorems of Parallel and Perpendicular Axes, Moment of Inertia, Triangular Lamina, Circular Lamina, Circular Ring, Right Circular Cone, Sphere. (Solid and Hollow)

TEXT BOOK:

1. P.Duraipandian, Lakshmi Duraipandian and Muthamizh Jayapragasam [2012] “Mechanics”, Revised Edition, S.Chand & Co, New Delhi.

Unit-I: Chapter-2 & 3 (sec: 2.1-2.2), and 3.2-3.4

Unit-II: Chapter-1 (Sec: 1.4-1.4.1),Chapter 11(sec 11.1-11.3) Chapter- 12(12.1-12.1.2)

Unit-III: Chapter-13 (Sec: 13.1,13.1-13.1.3,4-6,13.2,13.2.1),

Unit-IV: Chapter-16 (Sec:16.1,16.2,16.2.1,16.2.2,16.2.3,16.3),

Unit-V: Chapter-17 (Sec:17.1-17.1.1).

REFERENCE BOOKS:

1. A.V.Dharmapadam [1991], “Mechanics” ,S.Viswanathan and Co. Chennai.

2. S.L.Loney [1982], “Elements of Dynamics”, Macmillan India, Delhi.

3. M.K.Venkataraman [1990], “Dynamics”, Agasthier Book Depot, Trichy- 1.

4. P.N.Chatterjee [1992], “Dynamics”, A Rajhans Publication, (19th Ed).

5. Joseph F.Shelley [2005], “Vector Mechanics for Engineers Vol-I: Dynamics”, Tata McGraw Hill Edition, New Delhi.

SKILL DEVELOPMENT

III B.Sc (PH)	SOFT SKILLS	
SEMESTER – VI		HRS/WK-2
CORE		CREDIT- 1

UNIT-I: READING COMPREHENSION:

Introduction to variety of reading passages- Key to comprehension- tackling questions-techniques for answering comprehension questions- Skimming-Scanning- Intensive reading- Extensive reading.

UNIT -II: VOCABULARY AND GRAMMAR

Synonyms- Antonyms- Analogy- Sentence Completion-Basics of grammar-Parts of speech-Tense form- articles etc- identifying errors

UNIT-III: WRITING SKILLS

Basics of writing- Writing paragraphs- writing research articles- report writing- writing a CV- responding to the task-coherence and cohesion -Grammatical range and accuracy- planning and preparation- writing general essays- descriptive writing

UNIT-IV: PUBLIC SPEAKING AND PRESENTATION SKILLS

The power of public speaking-Developing Confidence-Planning- Preparation- Successful and effective delivery of speech

Types of presentation- time management during presentation- language and choice of words- voice modulation-aids- drawing audience active participation- brainstorming sessions and feedback-modern etiquette.

UNIT-V: GROUP DISCUSSION AND INTERVIEWS

Types of group discussion - techniques in group discussion - tips for group discussion-Common interview questions - attitude and effort – body language - types of interviews – thank you notes and follows ups.

TEXTBOOKS

1. Wren & Martin, High School English Grammar & Composition, S Chand & Co Ltd.
2. Arun Sharma, How to Prepare for Verbal Ability and Reading Comprehension for CAT, 9th Edition, 2020.
3. ShaileshPatil, Handbook on Public Speaking, Presentation & Communication Skills
4. SheetalDesarda, Master the Group Discussion & Personal Interview: Complete Discussion on the topics asked by reputed B-schools & IIMs, 2015.

NON-MAJOR ELECTIVE SYLLABUS

COURSE OVERVIEW

The Electrical and Electronic Fundamentals course focuses on the basic concepts and skills that students will require when they work with electrical equipment in a residential location. The course discusses the fundamental principles of electricity and electronics and the function of various devices such as resistors, capacitors, Transformers, diodes and transistors. Different types of circuits and their applications are also discussed. Students will use electrical test equipment and diagnostic tools. They will also learn about safety measures, codes, and rules and regulations that must be followed for preventing mishaps.

UG	ELECTRICAL AND ELECTRONIC FUNDAMENTALS	NPHEF301/401
SEMESTER – III/IV		HRS/WK-3
NME		CREDIT-3

OBJECTIVE:

To study the basic concepts and applications of electrical and electronics.

COURSE OUTCOMES:

At the end of the Course the students should be able to exhibit

CO1: Students learn the knowledge of principles behind the electricity

CO2: Students learn to analyze the functions of series and parallel circuits

CO3: Students understands the flow of alternative current through the components

CO4: Students learn to identify the use of electronic components in the circuits

CO5: Students apply the knowledge of electrical and electronic components in the circuits

UNIT I – BASICS OF ELECTRICITY

(09 Hours)

Voltage - Current Flow-Resistance-Ohm's Law -Resistors in Series- Resistor colour coding scheme -Capacitor-Principle of a capacitor-Types (only) and uses-Multimeter (Purpose and usage only).

UNIT II - DC RESISTIVE CIRCUITS

(09 Hours)

Introduction-DCCircuit-AC Circuit- Series Circuit-Resistance in series- Series I-R voltage Drops- Voltage division rule-Total Power in a series circuit-Parallel Circuit- Resistance in Parallel Circuit- Current Division Rule.

UNIT III – AC CONCEPTS

(09 Hours)

Introduction – Types of AC current – Important terms of an AC – Cycle – Time Period – Frequency Amplitude – Phase – Transformer – Principle – Construction, Working and Application.

UNIT IV-ELECTRONIC DEVICES

(09 Hours)

Diode – Construction and working – Rectifier-Full wave rectifier using two diodes- Zener diode – Construction and working - Testing diodes and Zener diodes usingmultimeter.

UNIT V- APPLICATIONS OF ELECTRONIC DEVICES

(09 Hours)

Solar cell – Principle – Construction, Working and Application- LED- Principle – Construction, Working and Application, Applications in Medicine – X-ray-Production and Application.

TEXT BOOKS

1. Bernard Grob, Basic Electronics, 5th Edition, McGraw Hill Kogakusha Ltd., New Delhi.
2. R. S. Sedha, A Text Book of Applied Electronics, S. Chand & Company Ltd., New Delhi.
3. Murugesan Sivaprasath, Modern Physics, 18th Edition, S. Chand & Company Ltd., New Delhi.
4. R. Murugesan, Electricity and Magnetism, S. Chand & Company Ltd., New Delhi.

REFERENCE BOOKS

1. G. Randy Slone, Electricity and Electronics, McGraw Hill publishers, 2000.
2. Dale R. Patrick, Stephen W. Fardo, Electricity and Electronics Fundamentals, Fairmont Press, 2008.

Question Paper Pattern (as per your board of studies recommendations)

THEORY EXAMINATION

Continuous Internal Assessment (CIA) (25 marks)

Two Internal Examinations	15 marks
Assignment / Seminar	10 marks
Total	25 marks

External Examination (75 marks)

Question Pattern – PG

Time: 3 Hours

Max. Marks: 75

Section – A (10 X 2 = 20)

(Answer ALL the questions)
(Two questions from each Unit)

Section – B (5 X 5 = 25)

(Answer all the questions)
(One question from each Unit; either or pattern and any one of the questions will be a problem; both part)

Section C (3 X 10 = 30)

(Answer any Three Questions out of five)
(One Question from each unit and it may have subdivisions may contain problems also)

III B.Sc. (CH)	PHYSICAL CHEMISTRY PRACTICALS	CHP605
SEMESTER – V		HRS/WK – 3
CORE PRACTICAL - VII		CREDIT- 2

COURSE OUTCOMES (COs):

CO1: Students get the exposure on kinetic experiments.

CO2: Students get the exposure on colligative properties.

CO3: Students learn the effect of impurity in solutions.

1. Distribution law:

- Association of Benzoic acid between water and benzene.
- The distribution coefficient of Iodine between water and CCl_4 .
- The distribution coefficient of Iodine between water and Benzene.

2. Kinetics:

- Acid-catalyzed the hydrolysis of an ester (methyl or ethyl acetate).
- Saponification of an ester (methyl or ethyl acetate).
- Iodination of acetone.

3. Colligative properties:

Rast's method:

- Determination of molecular weight of a solute – using naphthalene or diphenyl as solvents.

Solutions:

- Determination of activity and activity coefficient from freezing point depression method.
- Construction of temperature - composition curves for Azeotropic mixtures.
 - Intermediate deviation
 - Maximum deviation
 - Minimum deviation

4. Heterogeneous Equilibria:

- Phenol – water system – CST
- Effect of impurity – 2% NaCl or succinic acid solutions on the phenol-water system – determination of the concentration of the given solution.

5. Determination of the transition temperature of the given salt hydrate:

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$, $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$, $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$, $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$.

SCHEME OF EVALUATION

Continuous Internal Assessment (CIA): **(40 MARKS)**

Based on the periodical evaluation of record and experiments assessed by the staff in charge.

External Examination: **(60 MARKS)**

- | | |
|---------------------------|------------|
| 1. Aim & Short procedure | : 10 marks |
| 2. Experiment | : 15 marks |
| 3. Manipulation | : 10 marks |
| 4. Accuracy of the report | : 10 marks |
| 5. Viva | : 5 marks |
| 6. Record | : 10 marks |

III B.Sc. (CH)	GRAVIMETRIC ESTIMATION	CHP606
SEMESTER - V		HRS/WK – 4
CORE PRACTICAL - V		CREDIT- 2

COURSE OUTCOMES (COs):

CO1: Students learn various estimations through gravimetric methods.

CO2: Students learn how to handle the drying of precipitates.

CO3: Students learn the techniques of filtration.

GRAVIMETRIC ESTIMATIONS

1. Estimation of Sulphate as barium sulphate.
2. Estimation of Barium as barium sulphate.
3. Estimation of Barium as barium chromate.
4. Estimation of Lead as lead chromate.
5. Estimation of Calcium as calcium oxalate monohydrate.

GRAVIMETRIC ESTIMATION PRACTICAL EXAMINATION

Continuous Internal Assessment (CIA): **(40 MARKS)**

Based on the periodical evaluation of record and experiments assessed by the staff in-charge.

External Examination: **(60 MARKS)**

- | | | |
|---------------------------|---|----------|
| 1. Experiment | : | 20 marks |
| 2. Manipulation | : | 15 marks |
| 3. Accuracy of the report | : | 10 marks |
| 4. Viva | : | 5 marks |
| 5. Record | : | 10 marks |

III B.Sc. (CH)	ANALYTICAL CHEMISTRY PRACTICALS	CHP607
SEMESTER – V		HRS/WK – 3
CORE PRACTICAL – VI		CREDIT- 2

COURSE OUTCOMES (COs):

CO1: Students learn Chromatographic techniques of TLC and Column.

CO2: Students learn Conductometry and Potentiometry through various determinations.

CO3: Students learn Colorimetry and pH metry.

1. Chromatography:

- a) Thin-layer chromatography.
- b) Column chromatography.

2. Conductometry:

- a) Determination of strength and amount of strong acid (HCl Vs NaOH).
- b) Verification of Onsager's equation.
- c) Determination of strength and amount of a mixture of acids (HCl + CH₃COOH Vs NaOH).

3. Potentiometry:

- a) Determination of single electrode potential.
- b) Determination of pKa of a weak acid using std. NaOH solution.

4. Colourimetry:

Determination of unknown concentration using a photoelectric colourimeter.

5. pH meter:

Determination of pKa of acetic acid.

ANALYTICAL CHEMISTRY PRACTICAL EXAMINATION

Continuous Internal Assessment (CIA):

(40 MARKS)

Based on the periodical evaluation of record and experiments assessed by the staff in charge.

External Examination:

(60 MARKS)

- | | |
|---|------------|
| 1. Short procedure and work sheet preparation | : 5 marks |
| 2. Experiment | : 20 marks |
| 3. Manipulation | : 10 marks |
| 4. Accuracy of the report | : 10 marks |
| 5. Viva | : 5 marks |
| 6. Record | : 10 marks |

B.A., B.Sc.	ENTREPRENEURIAL CHEMISTRY	NCHEC401
SEMESTER – IV		HRS/WK - 3
NON-MAJOR ELECTIVE		CREDIT- 2

COURSE OUTCOME:

- i) To get the knowledge about soaps and its manufacture.
- ii) To get the knowledge of different types of detergents.
- iii) To get the knowledge of different types of Face and skin powders.
- iv) To get the knowledge of different types of solid disinfectants.
- v) To get the basic and synthetic knowledge of floor cleaning agents.

UNIT-I: SOAPS

[9 Hrs]

Soap - Definitions – Composition of Soaps - Manufacture of soaps – Hot process – cold process – Modern continuous process. Hand Sanitizers – types.

UNIT-II: DETERGENTS

[9 Hrs]

Detergents – Definition – types – Anionic, Cationic and Non-ionic detergents – Examples. – Sodium alkyl sulphates and sodium alkyl benzene sulphonates. – Manufacture of Detergents.

UNIT-III: COSMETIC POWDERS

[9 Hrs]

Face and skin powders - chemical ingredients used - their functions – Different types of powders.

UNIT-IV: SOLID DISINFECTANTS

[9 Hrs]

Disinfectants - chemical ingredients used - their functions – Different types – Manufacture of disinfectants. Bleaching powder - Ingredients and their functions – Preparation and uses.

UNIT-V: LIQUID DISINFECTANTS

[9 Hrs]

Preparation of Phenyle – White, Black and Multi-coloured – chemical ingredients and their functions – uses.

TEXT BOOKS:

1. Bahl & Arun Bahl- Advanced Organic Chemistry, Sultan Chand-1996.
2. Gobala Rao. S, Outlines of chemical technology, Affiliated East-West Press, 1998.
3. Kafaro, Wasteless chemical processing, Mir Publishers, 1995.

REFERENCE BOOKS:

1. B.K. Sharma, Industrial Chemistry, Goel Publishing House, 2004.
2. Sawyer. W, Experimental cosmetics, Dover Publishers, New York, 2000.

I M.Sc (Biochemistry)	COURSE TITLE:CHEMISTRY OF BIOMOLECULES	COURSE CODE : PBC11A
SEMESTER-I		HRS/WK-5
CORE-1		CREDIT-4

OBJECTIVES:

1. To provide information about biochemically important aspects of the biomolecules.
2. To understand the structure of biomolecules like carbohydrates and its properties.
3. To provide information about protein structure with examples.
4. To study about importance of lipids and lipoproteins.
5. To know the DNA-protein interactions and the techniques used to characterize it.

COURSE OUTCOMES (CO's):

CO1- To understand and acquire knowledge about the classification, structure, properties and biological importance of carbohydrates.

CO2- To gain knowledge about the different structural aspects of proteins and the allosteric nature of hemoglobin.

CO3- To acquire knowledge about the classification, structure and properties of lipids and its importance in physiological process.

CO4- To acquire the knowledge about the structure, types, properties and functions of DNA and RNA

CO5- Be familiar with important motifs involved in DNA-protein interaction and also gain technical skills in predicting the interactions.

SEMESTER I	COURSE CODE: PBC11A					COURSE TITLE: CHEMISTRY OF BIOMOLECULES								HOURS:5 CREDITS :4
COURSE OUTCOMES	PROGRAMME OUTCOMES(POS)					PROGRAMME SPECIFIC OUTCOMES(PSOS)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	5	4	4	3	4	3	4	4	3	4	3	5	4	3.8
CO2	4	4	3	4	3	3	4	4	4	5	5	4	4	3.9
CO3	4	3	4	3	4	3	4	5	4	3	3	3	4	3.6
CO4	3	4	4	3	3	4	3	4	4	4	3	4	3	3.5
CO5	4	3	3	4	3	4	3	4	4	3	4	4	3	3.6
Mean overall score													3.7	

Result: The Score of this Course is 3.7 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

is Course is having **High** association with Programme Outcome and Programme Specific Outcome

UNIT I - CARBOHYDRATES [15 hrs]

Carbohydrates: classification-properties of monosaccharides and disaccharides. Polysaccharides—occurrence, structure and biological functions of cellulose, chitin, starch and glycogen. Bacterial cell wall polysaccharides and blood group antigens. Glycosaminoglycans – structure and biological role of hyaluronic acid, chondroitinsulfate and heparin. Sialic acid – structure and significance, Proteoglycans and their biological importance.

UNIT II - PROTEINS [15 hrs]

Amino acids: classification and properties. Classification of protein. Orders of protein structure: Primary structure – determination of amino acid sequence of proteins. The peptide bond, Secondary structures – α -helix, β -sheet and β -turns. Pauling and Corey model for fibrous proteins, Reverse turns and super secondary structures and Tertiary structure. Ramachandran plot, Collagen triple helix, Conformational properties of silk fibroin, Quaternary structure of proteins, Models for hemoglobin allostery,

UNIT III - LIPIDS [15 hrs]

Lipids – Introduction, classification: structure and functions. Fatty acids: saturated, unsaturated and hydroxy fatty acids. PUFA, significance of omega 3 and 6 fatty acids, DHA. Phospholipids and glycolipids – structure and functions. Structure and functions of cholesterol. Lipids as signal, cofactor and pigments. Lipoproteins – Types and function.

UNIT IV - NUCLEIC ACIDS [15 hrs]

DNA double helical structure – Watson and Crick model. A, B and Z forms of DNA. DNA supercoiling and linking number. Properties of DNA – buoyant density, viscosity, denaturation and renaturation – The cot curve. Major classes of RNA – mRNA, rRNA, tRNA, snRNA, micro RNA, Sno RNA – structure and biological functions.

UNIT V - DNA - PROTEIN INTERACTIONS [15 hrs]

Salient features of nucleic acid recognition by proteins. DNA binding motifs in proteins – the basic helix loop helix (bHLH) motif, zinc finger, the leucine zipper and helix-loop helix. RNA binding motifs in proteins. Techniques characterizing nucleic acid-protein complex – gel retardation assay, DNase I foot printing, CHIP.

TEXT BOOKS:

1. Jain, J.L& Jain, (2005) Fundamentals of Biochemistry. Sixth Edition, S.Chand& Company, New Delhi.
2. Nelson, D.L. and Cox, M.M (2021). Lehninger Principles of Biochemistry. 8thEdition, W.H. Freeman and Company, New York.

REFERENCE BOOKS:

1. Donald Voet, Judith, G. Voet, and Charlotte, W Pratt, (2016). Fundamentals of Biochemistry, 5th Edition. John Wiley & Sons, New Jersey.
2. Zubay, G. (2017). Biochemistry, 5th Edition, WCB. Mcgraw-Hill, New York.
3. Bery J.M., Tymoezko J.L. and Stryer L. (2019) Biochemistry, 9th Edition, W.H. Freeman and Company, New York
4. Murray, K.R. Granner, K.D.Mayes, P.A. and Rodwell W.V. (2009).Harper's Biochemistry. 23rd Edition, Prentice Hall International Inc.,New Jersey.
5. Zubay, G. (2017). Biochemistry, 5th Edition, WCB. Mcgraw-Hill, New York.

I M.Sc (Biochemistry)	COURSE TITLE:CELLULAR BIOCHEMISTRY	COURSE CODE: PBC12A
SEMESTER-I		HRS/WK-5
CORE-2		CREDIT-4

OBJECTIVES:

1. To understand the structure and purpose of the basic components of the Cell and its organelles
2. To know the vast networks of communication that occurs between and within each cell in our body.
3. To acquire knowledge about microfilaments and microtubules.
4. To study about the components involved in cell- cell interaction.
5. To know the mechanism of cell cycle, cell death and genes to inhibit cancer.

COURSE OUTCOMES (CO's):

CO1: To gain in-depth knowledge about the structure and functions of various cell organelles, membrane and the techniques involved in visualization.

CO2: Able to understand the cell - cell interactions and the functional aspects of their components.

CO3: Able to understand the structure, functions and organization of microfilaments and microtubules.

CO4: To gain in-depth knowledge about the various mechanisms involved in cell signaling process.

CO5: To acquire knowledge and understand the different phases of cell cycle apart from types and tumorigenic properties of cancer.

SEMESTER I	Course Code:PBC12A					COURSE TITLE: CELLULAR BIOCHEMISTRY								HOURS:5 CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES(POS)					PROGRAMME SPECIFIC OUTCOMES(PSOS)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	5	3	3	4	4	4	4	5	4	4	3	4	4	3.9
CO2	5	4	3	4	4	3	3	4	4	4	3	4	4	3.8
CO3	4	4	3	4	4	4	4	4	4	5	4	3	4	3.9
CO4	3	4	4	3	4	3	4	3	3	4	3	4	3	3.5
CO5	4	3	4	4	3	3	4	3	4	3	3	5	4	3.6
Mean overall score														3.7

Result: The Score of this Course is 3.7 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **High** association with Programme Outcome and Programme Specific Outcome

UNIT I - BIOMEMBRANE AND ORGANELLES [15 hrs]

Structure and functions of organelles: nucleus, mitochondria, endoplasmic reticulum, golgi apparatus, lysosomes, ribosomes & peroxisomes. Membrane Models, Membrane lipids: fluidity, asymmetry and phase transition. Membrane proteins - Types, proteins on RBC membrane, Purification of subcellular organelles, Marker enzymes for different organelles.

UNIT II - CELL – ADHESION AND CELL CELL INTERACTION [15 hrs]

Cell-Cell interaction: ECM, Collagen, hyaluronan & proteoglycans, laminin, integrins and fibronectins. Cell-Cell adhesion: Specialised junctions - Desmosomes, Gap junctions, tight junctions. Adhesion molecules: Cadherins and Connexins.

UNIT III - CELL ORGANIZATION AND MOVEMENT [15hrs]

Microfilaments: Actin – Structures, Assembly and disassembly. Microtubules – structure and composition. Microtubular associated proteins, MTOCs, Cilia and Flagella - Structure and functions, Intermediary filaments.

UNIT IV - CELL SIGNALLING [15hrs]

Cell surface receptor and signalling pathways – cell surface receptors, signal transduction and second messengers –adenylatecyclase system, cAMP, G-protein coupled receptors. G-protein as cellular transducer, inositol triphosphate and calcium, DAG and NO, ion channels, Signal transmission via Ras proteins and MAP kinase pathways. Crosstalk in signaling pathways. mTOR pathway.

UNIT V - CELL CYCLE &CELL DEATH [15hrs]

Overview of cell cycle and its control. Checkpoints in cell cycle regulation. Apoptosis (Programmed cell death) - Pathways, regulators & effectors in apoptosis and necrosis, Autophagy. Cancer: types & properties of cancer cells. Tumor suppressor genes- functions.

TEXT BOOKS:

1. Harvey Lodish. W. H. Freeman; 9th edition (2021), Molecular cell Biology
2. Alberts 2002. Molecular Biology of the Cell 4th ed. Garland Sci.

REFERENCE BOOKS:

1. Nalini Chander, Susan Viselli, (2010) Lippincott's Illustrated Reviews :Cell and Molecular Biology. 2nd edition, Wolters Kluwer Health
2. De Robertis and De Robertis (2017) Cell and Molecular Biology. Lea and Febiger 8th ed.
3. Nelson, D.L. and Cox, M.M (2008). Lehninger Principles of Biochemistry. 5th Edition, W.H. Freeman and Company, New York
4. Kelein Smith, and M Kish, (2002). Principles of cell biology, 3rd Edition, Harper and Row Publisher.
5. Karp, G. Cell 2010, Molecular Biology: Concepts and Experiments, 6th edn, Wiley.

I M.Sc (Biochemistry)	COURSE TITLE: METABOLISM AND REGULATION	COURSE CODE: PBC13A
SEMESTER-I		HRS/WK-5
CORE-3		CREDIT-4

OBJECTIVES:

1. To understand the biological oxidation, ETC, Oxidative phosphorylation perform in cellular work.
2. To provide students with an understanding of key metabolic pathways of carbohydrates and its energy generation.
3. To give insights to general reactions of Amino acids and metabolism of protein.
4. To know the metabolic pathway of lipids and lipids storage disease..
5. To gain skills to interpret how the pathways are regulated by various metabolic and hormonal changes.

COURSE OUTCOMES (CO's) :

CO1: To gain insights about the biological oxidation process, high energy compounds and key carbohydrate metabolic pathways such as glycolysis, TCA and ETC.

CO2: To understand the key metabolic steps involved in various pathways of carbohydrate metabolism.

CO3: To gain knowledge about the metabolic pathways of amino acid metabolism and its related inborn errors.

CO4: To gain knowledge about the metabolic pathways of lipid metabolism and its storage diseases.

CO5: Able to understand and interpret the metabolic pathways of nucleic acid metabolism and nucleotide coenzymes.

SEMESTER I	COURSE CODE: PBC13A					COURSE TITLE: METABOLISM AND REGULATION								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(POS)					PROGRAMME SPECIFIC OUTCOMES(PSOS)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	4	3	4	3	4	5	4	4	3	4	4	3	4	3.8
CO2	3	3	3	4	4	4	4	4	3	4	3	4	3	3.5
CO3	4	4	4	5	3	4	4	3	3	4	4	4	3	3.8
CO4	3	4	5	4	4	3	3	4	4	3	3	4	4	3.7
CO5	3	4	3	4	3	3	4	5	4	3	4	4	4	3.7
Mean overall score													3.7	

Result: The Score of this Course is 3.7 (High)

UNIT V NUCLEIC ACID METABOLISM

[15 hrs]

Nucleotides – Biosynthesis of Purines (de nova and salvage) and biosynthesis of Pyrimidines - catabolism and regulation of purine and pyrimidine biosynthesis. Biosynthesis of NAD^+ / NADP^+ and FAD^+ .

TEXT BOOKS:

1. Nelson, D.L. and Cox, M.M (2021). Lehninger Principles of Biochemistry. 8thEdition, W.H. Freeman and Company, New York.
2. U. Sathayanarayana,(2006). Biochemistry. 3rd Edition by Books and Allied (P) Ltd., India.

REFERENCE BOOKS:

1. Victor W. Rodwell, 2015.Harpers Illustrated Biochemistry 30th Edition Paper back– Import, 1 Jan
2. Berg, J. M., Tymoczko, J. L. and Stryer, L, 2011.Biochemistry. Freeman, 7th edn,
3. Zubay, G. (2017). Biochemistry, 5th Edition, WCB. Mcgraw-Hill, New York.
4. Donald Voet, Judith, G. Voet, and Charlotte, W Pratt, (2016). Fundamentals of Biochemistry, 5th Edition. John Wiley & Sons, New Jersey.
5. Jain, J.L & Jain, (2005) Fundamentals of Biochemistry. Sixth Edition, S.Chand & Company, New Delhi.

I M.Sc (Biochemistry)	COURSE TITLE:CLINICAL NUTRITION	COURSE CODE: EPB14A
SEMESTER-I		HRS/WK-5
ELECTIVE-I		CREDIT-4

OBJECTIVES

1. To study the nutritional aspects of various foodstuffs and its measurement.
2. To study the functional aspects of vitamins and minerals.
3. To understand the nutritional management of diet in different age groups and diseases.
4. To learn and gain knowledge about the functional foods.
5. To gain knowledge about nutraceuticals, Probiotics and prebiotics.

COURSE OUTCOMES (CO's):

CO1: Students gain knowledge about diet and different nutritional disorders.

CO2: To understand and gain knowledge about different types of nutritional measurements.

CO3: Students are able to comprehend the daily requirements and functions of vitamins & minerals.

CO4: Students are able to demonstrate and exhibit different dietary plan for different age groups & disease condition.

CO5: Students are able to gain knowledge about importance of nutraceuticals and antioxidants in human health.

SEMESTER I	COURSE CODE:EPB14A					COURSE TITLE: CLINICAL NUTRITION								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES (POS)					PROGRAMME SPECIFIC OUTCOMES (PSOS)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	4	4	3	5	2	2	3	3	5	5	3	5	4	3.7
CO2	5	4	4	3	2	2	3	4	5	3	4	3	3	3.5
CO3	4	3	3	2	2	5	3	3	3	3	5	5	3	3.4
CO4	3	3	4	5	2	2	5	4	4	2	5	5	4	3.7
CO5	4	3	4	5	2	5	3	4	3	5	5	3	3	3.8
Mean overall score													3.6	

Result: The Score of this Course is 3.6 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **High** association with Programme Outcome and Programme Specific Outcome

UNIT 1 - NUTRITIONAL DISORDER [15 hrs]

Introduction:Balanced diet, Diet-composition, fiber in diet. Calorific value of proteins, carbohydrates, Biological value of proteins, Chemical score. Disorders associated with protein metabolism-marasmus and kwashiorkor. Fats: sources, essential and non-essential fatty acids-disorders concerned with fatty acid metabolism. Refsum's disease, atherosclerosis and fatty liver.

UNIT II - BASAL METABOLIC RATE [15 hrs]

Basal metabolic rate-factors affecting BMR-determination of BMR, direct and indirect methods-Benedict's Roth apparatus-respiratory quotient, BMI and its measurement. SDA, Anthropometry: height, weight, skin fold thickness and arm circumference and their importance in nutrition.

UNIT III - VITAMINS & MINERALS [15 hrs]

Vitamins-Classification, fat soluble and water soluble vitamins-source, daily requirements, functions and deficiency manifestations. Micro,Macro and trace elements-daily requirements, functions and deficiency manifestations.

UNIT IV - NUTRITIONAL MANAGEMENT [15 hrs]

OBJECTIVES of diet therapy-regular diet and rationale for modifications in energy and other nutrients, texture-fluid,soft diets etc. Glycemic index. Nutritional management of:obesity,cardiovascular diseases,Diabetes mellitus, Renal disorders and neurological disorders (Parkinson's disease, Alzheimer's disease). Nutrition requirements at different stages of life - during infancy, adolescence, pregnancy, lactation and Geriatrics.

UNIT V - RECENT ADVANCES IN CLINICAL NUTRITION [15 hrs]

Neutraceuticals: Adverse effects of neutraceuticals.Functional foods-Health benefits of functional foods in Immune function & mental health. Probiotics and prebiotics: Types & Health benefits.Antioxidants-Role of antioxidants in human health, Phytochemicals (polyphenols, flavonoids& terpenes).

TEXT BOOKS:

1. M. Swaminathan, 1987, "Food and Nutrition Vol I&II", Second edition, Bangalore, Bappco Publishers.
2. Mahan ,L. KandEscott-Stump,S (2000):Krause's Food Nutrition and Diet therapy,10thed, W-13 Saunders Ltd

REFERENCE BOOKS:

1. Williams, SR(1993):Nutrition and Diet Therapy,7thed, Times Mirror/Mosby College Publishing
2. Shills,ME,Olson,JA,Shike,M and Ross,A.C(1999):Modern Nutrition in Health and Disease,9thed,A.Vaiiams and willons
3. Davidson and Passmore(2000):Human Nutrition and Dietetics
4. Patricia Trueman, 2007, "Nutritional Biochemistry" (I edition), Chennai, MJ publishers
5. M.N Chatterjea and RanaShinde," Text book of Medical biochemistry",4th edition, Jaypee Publishers, New Delhi.

I M.Sc (Biochemistry)	COURSE TITLE:CLINICAL LAB TECHNOLOGY	COURSE CODE: EPB14B
SEMESTER-I		HRS/WK-5
ELECTIVE-2		CREDIT-4

OBJECTIVES:

- 1.To impart basic knowledge of apparatus, units, equipment, and analysis in the Clinical Biochemistry.
- 2.To discuss the laboratory test and diagnosis of various blood components.
- 3.To learn about various histological techniques, handling and processing of tissue specimens as well as staining procedures.
- 4.To learn the different culturing techniques and its identification methods.
- 5.To provide an insight into the basic techniques in medical diagnostics

COURSE OUTCOMES CO's):

CO1: To learn about the handling of the laboratory equipment's and also know about how to collect and preserve the biological samples.

CO2: To gain the knowledge about to accessing various blood components and predict its clinical significance.

CO3: To acquire the knowledge and skill about various steps involved in the histopathological techniques.

CO4: To understand the importance of various biochemical parameters and its clinical significance.

CO5: To learn the basic skills of microbial culture and its safety measures.

SEMESTER I	COURSE CODE: EPB14B					COURSE TITLE: CLINICAL LAB TECHNOLOGY								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES (POS)					PROGRAMME SPECIFIC OUTCOMES (PSOS)								MEAN SCORE OF CO'S
	PO 1	PO 2	PO 3	PO 4	PO5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	
CO1	5	4	3	5	4	3	5	4	4	5	5	4	3	4.2
CO2	4	4	5	4	3	5	3	5	4	3	4	3	4	3.9
CO3	4	3	4	3	4	4	5	4	3	5	3	4	3	3.8
CO4	4	5	3	4	3	4	4	3	3	5	4	5	4	3.9
CO5	3	5	4	4	3	4	4	5	4	5	4	3	5	4.2
Mean overall score														4.0

Result: The Score of this Course is 4.0 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **High** association with Programme Outcome and Programme Specific Outcome

UNIT I -GOOD LABORATORY PRACTICEAND INSTRUMENTATION [15 hrs]

Automation in clinical lab – Instrumental concept, selection of instrument, quality control of pre analytical and analytical variables. Internal and external quality control measurements. Collection, storage, calibration, and preservation of samples. Good laboratory practice (GLP)

UNIT II - HEMATOLOGY [15 hrs]

Blood grouping and Rh factor, cross matching, clotting time, bleeding time, hemoglobin estimation, total count-RBC count and WBC count, Differential WBC count, MCHC, MCH, MCV. Erythrocyte Sedimentation Rate (ESR), Hematocrit value (Packed Cell Volume). Screening test-HIV, HbsAg and TPHA. Platelet and its significance, Coombs test.

UNIT III - CLINICAL PATHOLOGY [15 hrs]

Brief outline of histopathology: Tissue cutting, fixation, embedding, tissue slicing by microtome, slide mounting and staining techniques. Fine needle aspiration, preservation of tissues and H/E staining.

UNIT IV - CLINICAL BIOCHEMISTRY [15 hrs]

Biochemical parameters: Blood glucose, HbA1c, urea, uric acid, lipid profile, total protein, albumin test, A/G ratio- normal values and their significance. Enzymes: SGOT, SGPT, serum alkaline and acid phosphatase, amylase, lactic dehydrogenase test- normal values and their significance. Electrolytes: sodium, potassium, calcium, phosphorous - its role and abnormalities.

UNIT V - MICROBIOLOGY AND STERILIZATION TECHNIQUES [15 hrs]

Sterilization, culture media, culturing of organisms from various specimens and antibiotic sensitivity test (pus, urine, blood, sputum, throat swab). Gram stain and Ziehl-Neilson staining (TB, Lepra bacilli). Hazards & safety practices in microbial techniques.

TEXT BOOKS:

- 1.Mukherjee, L. (2005). Medical Laboratory Technology. Tata McGraw- Hill education Pvt Ltd.
- 2.Gradwohls, B.H. (2000). Clinical laboratory methods and diagnosis. B.I. Publications, New Delhi.

REFERENCE BOOKS:

- 1.Fischbach Francis A, (2003). Manual of laboratory and diagnostic tests. Philadelphia, J.B. Lippincott & Co, N.Y.
- 2.Sood, R, (2005).Medical Laboratory methods and interpretation. Jaypee brothers' medical publications, New Delhi.
- 3.Darshan, P. (2014). Text book of medical laboratory technology. Bhalani publishing house.
- 4.Arundhatikolhatkar, J. (2001). Medical laboratory science: Theory and practice. Tata McGraw-Hill education Pvt Ltd.
- 5.Luxton, R. (2010). Clinical biochemistry. Vinoth Vasishta Pvt Ltd.

I M.Sc (Biochemistry)	COURSE TITLE:FOOD TECHNOLOGY	COURSE CODE: EPB14C
SEMESTER-1		HRS/WK-5
Elective - 3		CREDIT-4

OBJECTIVES:

1. To study the nature of food, spoilage, preservation and its applications
2. To gain knowledge about the important pathogens
3. To study the source and variability of raw food materials
4. To Study of food science involves the chemical and physical changes taking place when processed /cooked/ storage/preservation.
5. To impart to students the necessary knowledge and skills towards solving theoretical problems in food science and technology.

COURSE OUTCOMES CO's):

CO1: To study the structure, composition, nutritional quality of milk product and importance of Food Adulteration.

CO2: To acquire knowledge about the important pathogens and spoilage microorganisms in foods and the conditions under which they will grow.

CO3: To understand the source and variability of raw food materials and their impact on food processing operations.

CO4: To Emphasis the various properties of the raw materials used in food processing, different processing technologies required in transforming them into quality food products and material handling equipment involved in food processing operations.

CO5: To gain the knowledge about Food laws and quality control.

SEMESTER V	COURSE CODE: EPB14C					COURSE TITLE: FOOD TECHNOLOGY								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(POS)					PROGRAMME SPECIFIC OUTCOMES(PSOS)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	5	4	2	3	2	5	4	4	3	2	5	5	5	3.7
CO2	4	5	2	2	2	4	4	5	2	2	4	5	3	3.5
CO3	4	4	2	2	2	5	3	4	2	2	3	5	3	3.1
CO4	4	5	2	2	2	4	3	4	3	2	4	4	5	3.3
CO5	5	5	2	4	3	5	5	5	4	2	4	4	5	3.9
Mean overall score													3.5	

Result: The Score of this Course is 3.5 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **High** association with Programme Outcome and Programme Specific Outcome

UNIT I - FOOD CONSTITUENTS AND ADULTERATION [15 hrs]

Constituents of food: Introduction- water, carbohydrate, fat, oil, vitamins and minerals. Pulses, grains, vegetables and fruits- nutritive value. Milk- kinds of milk: whole milk, low-fat & skimmed milk, toned milk, composition, nutritive value, pasteurization and homogenization. Food Adulteration: types of adulterants, common adulterants in foods, toxicants in foods. Impact of food adulteration in humans.

UNIT II - FOOD SPOILAGE [15 hrs]

Food spoilage: Characteristic features, dynamics and significance of spoilage of different groups of foods - Cereal and cereal products, vegetables and fruits, meat poultry and sea foods, milk and milk products, packed and canned foods. Factors affecting growth & survival of microorganism in food, physical & chemical methods to control microorganism.

UNIT – III FOOD PROCESSING AND PRESERVATION [15hrs]

Food processing: Principle and methods of food processing and preservation-freezing, high pressure, heating, dehydration, canning and Packaging. fermentation, irradiation and osmotic pressure. Application of enzymes and microorganisms in food processing and preservation. Food Additives - Definition, types and functions, permissible limits and safety aspects.

UNIT IV - INDUSTRIAL PRODUCTION OF FOODS [15 hrs]

Yogurt preparation, Cheese and its classification, cheese making, fermented vegetables, production of oil from soya beans. Fruit and vegetable juices, jams, production of beer, wine and vinegar.

UNIT V - LEGAL ISSUES AND GOVERNMENT NORMS [15hrs]

Food regulations – History of Indian Food Regulations: BIS, ISI, FPO, PFA and FDA. Food Safety and Standards Act 2011. Food laws and quality control – HACCP, Codex alimentarius, MFPO, BIS, AGMARK and FSSAI. Legal aspects related to storage and disposal.

TEXT BOOKS:

1. Gabriel Virella (1997), Microbiology and infectious disease, 3rd Ed, Ingraham international, New Delhi.
2. John L Ingraham and Catherine A.Ingraham. Microbiology an introduction, 2nd Ed, Cengage learning, New Delhi

REFERENCE BOOKS:

1. Sivasankar,B.(2005),Food processing and preservation,3rd Ed, Prentice Hall India (P) Ltd.
2. VijayaKhader (2009), Text book of food science and technology,5thEd, Indian council of Agricultural research.
3. Avantina Sharma, Text book of food science and technology, 3rd Ed, CBS Publishers.
4. Rao E. S. (2013). Food Quality Evaluation
5. Carolyn D. Berdanier. (2014). Handbook of nutrition and food, 3rd Ed, CRC Press.

YEAR-I (Biochemistry)	COURSE TITLE: MOLECULAR BIOLOGY (75 hrs)	COURSE CODE : PBC21A
SEMESTER-II		HRS/WK-5
CORE-IV		CREDIT-4

OBJECTIVES:

1. To understand the mechanisms and factors involved in replication process along with packaging.
2. To acquire knowledge about transcription process in prokaryotes and eukaryotes.
3. To know about the features of genetic code and translation process
4. To gain knowledge about protein targeting, transport, and gene regulation.
5. To learn about different repair systems present in DNA damage.
6. To gain significant knowledge about protein targeting, HSPs and transposons.

COURSE OUTCOMES(CO's)

CO1: Understand the mechanisms and factors involved in replication process in prokaryotes and eukaryotes and its packaging model.

CO2: Acquire knowledge about transcription process in prokaryotes and eukaryotes, inhibitors and its modification.

CO3: Comprehend the features of genetic code and steps involved in translation process

CO4: Gain knowledge about protein targeting, transport to different organelles, and gene regulation with respect to different operons.

CO5: Understand the mechanisms of various DNA repair systems and diseases caused due its disorders.

SEMESTER II	Course Code: PBC21A					COURSE TITLE-MOLECULAR BIOLOGY								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	3	4	3	5	4	3	5	4	4	3	3	4	3	3.7
CO2	3	4	3	4	3	5	3	4	4	3	4	3	4	3.6
CO3	4	3	4	3	4	4	5	4	3	5	3	4	3	3.8
CO4	4	5	3	3	3	4	4	3	3	4	2	5	4	3.6
CO5	3	3	2	4	3	4	4	3	3	3	4	3	3	3.2
Mean overall score													3.6	

Result: The Score of this Course is 3.6 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT-I : DNA REPLICATION

15 hrs

Central Dogma of Molecular Biology, Organisation of Chromosome, C value, C value paradox, Replication: Types of replication, evidence for semiconservative replication - Meselson and Stahl experiment, DNA Polymerases in prokaryotes and eukaryotes. Replication in prokaryotes- Initiation, elongation and termination, inhibitors of replication, bidirectional replication, reverse transcriptase, replication in RNA virus, Eukaryotic replication and inhibitors of replication.

UNIT-II : TRANSCRIPTION

15 hrs

Transcription - definition, coding strand, template strand, sense strand and antisense strand, promotor,, DNA - dependent RNA polymerase, prokaryotic transcription: initiation, elongation and termination, posttranscriptional processing in prokaryotes, split genes, overlapping genes, eukaryotic transcription, spliceosome machinery, alternative splicing, polyadenylation and capping, processing of rRNA and tRNA. Catalytic roles of RNA; RNA editing. Post-transcriptional modifications of eukaryotic RNAs.

UNIT-III : GENETIC CODE AND TRANSLATION

15 hrs

Genetic code - features, deciphering of the genetic code, codon dictionary. Wobble hypothesis, composition of prokaryotic and eukaryotic ribosomes, prokaryotic and eukaryotic protein biosynthesis - initiation, elongation, and termination, polysomes, post-translational modifications in prokaryotes and eukaryotes, inhibitors of protein synthesis.

UNIT-IV : PROTEIN TRANSPORT AND GENE EXPRESSION

15 hrs

Protein targeting, translocation, glycosylation, SNAPs and SNAREs, bacterial signal

sequences, heat shock proteins, mitochondrial, chloroplast and nuclear protein transport, endocytosis-viral entry, ubiquitin TAG protein destruction. Regulation of gene expression: Lac, Trp, Ara operon, DNA methylation in prokaryotes, DNA methylation in eukaryotes- CpG islands.

UNIT-V: DNA DAMAGE AND REPAIR

15 hrs

Mutagenesis, Different types of DNA damages, recognition of DNA damage, types of DNA repair systems including photoreactivation, excision repair, mismatch repair, recombination repair and SOS repair. Diseases associated with DNA repair problems

TEXT BOOKS:

1. G. Karp (2019). *Cell and molecular biology* (9th edition), John Wiley & Sons Inc.
2. Lehninger, Nelson & Cox, (2013). *Principles of Biochemistry* (7th edition) Macmillanworth Publishers.
3. Alberts, B., Bray, D., Lewis, J., Raff, M., Roberts, K., Watson, J.D. (1994). *Molecular Biology of the Cell*. (3rd edition.), Garland Publishing, Inc., New York

REFERENCEBOOKS:

1. Robert J Brooker (2017). *Genetics: Analysis and Principles*, (6th Edition), McGraw Hill Education.
2. Kleinsmith, L. J. & Kish, V.M. (1997) *Principles of Cell and Molecular Biology*. (2nd edition). Pearson.
3. Jocelyn E. Krebs, Elliott S. Goldstein, Stephen T. Kilpatrick (2014) Lewin. *Genes XI* (11th edition), Oxford University Press.
4. Twyman. (2005) *Advanced Molecular Biology* (3rd edition), Viva Publ.
5. David Baltimore and Harvey Lodish (2016). *Molecular Cell Biology*. (8th edition) WH Freeman.

YEAR-I (Biochemistry)	COURSE TITLE:ENZYMOLGY (75 hrs)	COURSE CODE : PBC22A
SEMESTER-II		HRS/WK-5
CORE-V		CREDIT-4

OBJECTIVES:

1. To gain knowledge about fundamentals of enzyme structure, Nomenclature, IUB classification, and assay of enzymes.
2. To study the kinetics of the enzyme catalyzed reaction using different plots
3. To learn the mechanisms of enzyme regulation and its allosteric effects with suitable examples.
4. To learn the regulation and inhibition of enzymes.
5. It deals with current applications of enzymes and the methods of immobilization.

COURSE OUTCOMES (CO's)

CO1- To provide a deeper insight into the Nomenclature, IUB classification, and assay of enzymes.

and function and kinetics of enzymes

CO2- Able to understand the kinetics of the enzyme catalyzed reaction using different plots.

CO3- To exhibit knowledge and understanding about the enzyme catalytic reactions in the active site with appropriate example

CO4- To understand the mechanisms of enzyme regulation and its allosteric effects with suitable examples.

CO5- To gain knowledge about the types of inhibition in enzyme catalysis, immobilization of enzymes and its applications.

SEMESTER II	Course Code: PBC22A					COURSE TITLE- ENZYMOLGY								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	3	4	3	5	4	3	4	2	4	3	3	4	3	3.5
CO2	5	4	3	4	3	5	3	4	4	3	4	3	4	3.8
CO3	4	3	2	3	4	4	5	4	3	5	3	4	3	3.6
CO4	5	3	4	3	3	5	4	3	3	4	2	3	4	3.5
CO5	4	3	2	4	3	4	4	3	4	3	4	3	3	3.2
Mean overall score													3.5	

Result: The Score of this Course is 3.5 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I INTRODUCTION AND ASSAY OF ENZYMES [20 hrs]

Introduction, Classification and Nomenclature of enzymes - General characteristics of enzyme activity, factors affecting enzyme activity. Enzyme Units- Katal, IU, Measurement of enzyme activity-two point assay, Kinetic assay, using radiolabeled substrates. Non protein enzymes (Brief account). Coenzymes-Vitamin and non vitamin coenzymes-PLP, NADH, NADPH and Coenzyme-Q

UNIT II KINETICS OF ENZYME ACTION [15hrs]

Concept of ES complex, collision, transition state theories and energy of activation, derivation of Michaelis-Menten equation for uni- substrate reactions. Different plots for the determination of K_m , V_{max} and their significance. 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.

UNIT III MECHANISM OF ENZYME ACTION [10hrs]

Acid-base catalysis, covalent catalysis, metal ion catalysis, proximity, orientation effect. Active site – definition, common features of active site – Investigation of active site structure – trapping ES complex, Use of substrate analogue. Modification of aminoacid side chain change by single chemical procedure. Strain & distortion theory. Lock and Key, Chemical modification of active site of enzymes. Site directed mutagenesis of enzymes. Mechanism of action of chymotrypsin and lysozyme.

UNIT IV ENZYME REGULATION [15hrs]

General mechanisms of enzyme regulation, product inhibition. Reversible and irreversible. Covalent modifications of enzymes. Allosteric enzymes - positive and negative co-operatively with special reference to aspartate transcarbamoylase& Phosphofructokinase.

UNIT V ENZYME INHIBITION AND APPLICATION

[15hrs]

Types of inhibition- Irreversible inhibition, reversible - competitive, noncompetitive, uncompetitive inhibition. Kinetic differentiation and Graphical analysis- Suicide inhibition. Immobilized enzymes-methods of immobilization-applications of immobilized enzymes. Industrial enzymes and its application. Isolation and Purification and characterization of enzymes.

TEXT BOOKS:

1. Trevor Palmer, (2004). Enzymes. 5th edition, Affiliated East –West press (P)Ltd. New Delhi.
2. Marangoni ,2002. Enzyme kinetics. A modern approach, John Wiley.

REFERENCE BOOKS:

1. Zubay,1998“ Principles of Biochemistry”, 4th ed.. William C.Brown Publ.
2. Berg, J. M., Tymoczko, J. L. and Stryer, L. Biochemistry. Freeman, 7th edn, 2011.
3. Uhlig H.1998. Industrial enzymes and their applications. John Wiley,
4. Balasubramanian. 1998. Concepts in Biotechnology Universities Press (India) Ltd.,
5. Chapline, Bucke,1990. “Protein Biotechnology,”1st edition, Cambridge University Press.

YEAR-I (Biochemistry)	COURSE TITLE: BIOCHEMICAL TECHNIQUES	COURSE CODE : PBC23A
SEMESTER-II		HRS/WK-5
CORE-VI		CREDIT-4

OBJECTIVES:

1. To study about various types of chromatography and its applications.
2. To gain Knowledge instrumentation and application of different kinds of electrophoretic techniques.
3. To learn about various types of centrifugation process.
4. To gain in-depth Knowledge about the principle, instrumentation and application of spectroscopic techniques.
5. To learn about the basic concepts of radioactivity and Microscopy

COURSE OUTCOMES(CO's)

CO1: To gain knowledge about the Principle, instrumentation and application of various types of chromatography and its interpretation.

CO2: To acquire knowledge about the principle, preparation, instrumentation and application of different kinds of electrophoretic techniques.

CO3: To get in-depth understanding about the basic principle: types of rotors, instrumentation and application of different types of centrifugation process.

CO4: Able to exhibit their knowledge about the principle, instrumentation and application of spectroscopic techniques.

CO5: Able to demonstrate their skills in basic concepts of radioactivity, its measurement and application.

SEMESTER II	Course Code: PBC23A					COURSE TITLE- BIOCHEMICAL TECHNIQUES								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	4	3	5	3	4	5	4	5	4	5	4	4	5	4.2
CO2	4	4	4	5	4	3	5	3	4	5	3	5	4	4.1
CO3	3	4	5	3	3	3	4	5	4	5	4	3	5	3.9
CO4	4	5	4	5	4	4	4	3	5	3	3	5	4	4.1
CO5	5	3	4	5	4	3	5	4	3	5	4	4	5	4.2
Mean overall score													4.1	

Result: The Score of this Course is 4.1 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I CHROMATOGRAPHY [15 hrs]

Principle, instrumentation and applications of thin layer, gas chromatography and HPTLC. Column chromatography-packing, loading, elution and detection. 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. HPLC- principle, materials, instrumentation and applications, UPLC, UHPLC .

UNIT II ELECTROPHORETIC AND ELECTROCHEMICAL TECHNIQUES[15 hrs]

Electrophoresis: General principles. Support media. Cellulose acetate electrophoresis. Electrophoresis of proteins-native gels, SDS-PAGE, gradient gels, isoelectric focusing, 2-D PAGE. Detection, estimation and recovery of proteins in gels. Electrophoresis of nucleic acids- agarose gel electrophoresis.

UNIT III CENTRIFUGATION TECHNIQUES [10 hrs]

Centrifugation-principle, types of centrifuges, rotors-types, preparative centrifugation- types, instrumentation and applications. Analysis of subcellular fractions. Analytical ultracentrifuge-instrumentation and applications. Sedimentation velocity and sedimentation equilibrium.

UNIT IV SPECTROSCOPIC TECHNIQUES [20 hrs]

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 application. LCMS, GCMS, ICPMS.

UNIT V RADIOISOTOPE TECHNIQUES & MICROSCOPY [15 hrs]

Detection and measurement of radioactivity– GM counter, solid and liquid scintillation counting, Applications of radioisotopes in biology. Autoradiography. TEM, AFM, FACS-Principle and applications. Microscopy-Phase contrast Microscopy, Fluorescence Microscopy, Inverted Microscopy.

TEXTBOOKS:

1. AvinashUpadhyaye, and NirmalendheNath, (2002). Biophysical Chemistry Principles and Techniques. 3rd edition, Himalaya Publishers, New Delhi.
2. Keith Wilson, and John Walker, (2010). Principles and Techniques of Practical Biochemistry. 7th edition, Cambridge University Press. UK.

REFERENCE BOOKS:

1. Boyer, R. 2000. Modern Experimental Biochemistry. 3rd ed. Addison Wesley Longman,
2. Simpson CFA & Whittacker, M. Electrophoretic techniques.
3. Sambrook, 2001. Molecular Cloning. Cold Spring Harbor Laboratory.
4. Friefelder and Friefelder, 1994. Physical Biochemistry – Applications to Biochemistry and Molecular Biology. WH Freeman & Co.
5. Pavia, 2000. Introduction to Spectroscopy. 3rd ed. Brooks/Cole Pub Co.

YEAR-I	COURSE TITLE: PLANT BIOCHEMISTRY (75 hrs)	COURSE CODE: EPB24A
SEMESTER-II		HRS/WK-5
ELECTIVE-II		CREDIT-4

OBJECTIVES:

1. To acquire knowledge of the chemistry of important biological processes in plants.
2. To study about the functions and mechanisms of different plant hormones.
3. To acquire knowledge about photosynthesis, metabolism of nitrogen compounds and about molecular mechanisms of signalization and regulation.
4. To acquire knowledge about the importance of secondary metabolites and stress metabolism.
5. To gain thorough knowledge about the nitrogen fixation mechanism

COURSE OUTCOMES (CO)

CO1- Able to gain knowledge about the different components of plant cells apart from mechanism of absorption by plants.

CO2- To get in-depth knowledge about the functions and mechanisms of different plant hormones.

CO3- To acquire knowledge about the steps and mechanisms involved in photosynthesis of plants.

CO4- To know and interpret the different secondary metabolites present in the plants and its stress adaptation.

CO5- To gain thorough understanding about the nitrogen fixing mechanisms adopted by the soil microbes.

SEMESTER II	Course Code: EPB24A					COURSE TITLE- PLANT BIOCHEMISTRY								HOURS:5 CREDITS:4
	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	4	4	3	5	4	3	4	3	4	5	4	3	4	3.8
CO2	5	3	4	4	3	4	5	4	3	4	5	4	3	3.9
CO3	4	4	3	3	4	5	3	4	3	4	5	3	4	3.8
CO4	5	3	3	4	3	3	5	3	4	3	4	4	3	3.6
CO5	4	4	3	4	4	5	4	4	4	3	4	3	4	3.8
Mean overall score													3.8	

Result: The Score of this Course is 3.8 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I PLANT CELL & ABSORPTION [10 hrs]

Discovery and definition of plant cell – cell wall, plasmodesmata, meristematic cells, and secretory systems. Mechanism of absorption .Ion exchange passive absorption. Active absorption .The carrier concept. Donnan’s equilibrium.

UNIT II PLANT HORMONES [10 hrs]

Structure, biosynthesis, mode of action & physiological effects of auxins, giberellins, cytokinins and IAA. Biochemistry of seed dormancy, seed germination, fruit ripening and senescence.Synthetic seeds.

UNIT III PLANT PIGMENTS & PHOTOSYNTHESIS [20 hrs]

Structure & synthesis of chlorophyll, phycobilins and carotenoids. Photosynthesis photosystem I & II- Light absorption, Hill reaction, Red drop & Emerson’s enhancement effect. Cyclic and non-cyclic photophosphorylation, Calvin cycle. Photosynthesis-factors and regulation. Chloroplast ATP synthase, complexes associated with thylakoid membranes, light harvesting complexes. C3, C4 pathway and CAM.

UNIT IV SECONDARY METABOLITES &STRESS METABOLISM [15 hrs]

Secondary metabolites in plants –classification & function of alkaloids, terpenoids, tannins, polyphenols, flavanoids, saponins, lignin and pectin. Stress metabolism in plants - Environmental stresses, salinity, water stress, heat, Heavy metals, radiations ,chilling and their impact on plant growth.

UNIT V NITROGEN FIXING ORGANISMS

[20hrs]

Nitrogen fixation: Structure and mechanism of action of nitrogenase: Rhizobium symbiosis. Leghaemoglobin; strategies for protection of nitrogenase against the inhibitory effect of oxygen; nif genes of klebsiella pneumoniae including their regulation. Nitrate Assimilation: Nitrate reductase; regulation of nitrate assimilation. Ammonia assimilation by glutamine synthetase-glutamine oxoglutarate amino transferase (GS-GOGAT). Nitrite and nitrate reductase.

1.

TEXTBOOKS :

1. Jain.V.K., 2005. Fundamentals of Plant Physiology, revised 1st edition S.Chand and Co.
2. Verma, 2001. Plant physiology, 7th Revised edition, Emkay Publications.

REFERENCE BOOKS:

1. Solisbury and Ross, Plant Physiology, 3rd edition, CBS Publishers and Distributors.
2. Hans-Walter Held, Plant Biochemistry, 3rd edition, Elsevier India Pvt.Ltd.
3. Bonner and Varner, Plant Biochemistry, 3rd edition, Academic Press.
4. Bowsher, C, Steer, M. and Tobin, A (2008). Plant Biochemistry. Garland Science, Taylor and Francis Group, LLC. New York.
5. S. N. Pandey and B.K. Sinha, 1999. Vikas Publishing House Pvt. Ltd, 3rd edition, Plant Physiology.

YEAR - II	COURSE TITLE: DEVELOPMENTAL BIOLOGY	EPB24B
SEMESTER - II		HRS/WK – 5
Elective Paper III		CREDIT – 4

OBJECTIVES:

1. To understand the steps involved in morphogenesis and organogenesis in plants and animals.
2. To know about the basic concepts about gene mapping and ageing in humans.
3. To know about the major events in embryonic development
4. To Describe the major events in fetal development
5. To know the different patterns of inheritance

COURSE OUTCOMES:

- CO1:** To gain the knowledge about gene mapping and genetic basis of development in human and animal.
- CO2:** To understand the fundamental aspects and in depth knowledge about gametogenesis, fertilization and early development in plants and animals.
- CO3:** To get insight knowledge about the morphogenesis and organogenesis in animal.
- CO4:** Able to gain through knowledge about the morphogenesis and organogenesis in plants especially Arabidopsis and Antirrhinum.
- CO5:** To get in depth understanding knowledge about ageing, stem cells and apoptosis in various species.

SEMESTER – II	COURSE CODE: PBC24B					DEVELOPMENTAL BIOLOGY								HOURS:5 CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8	
CO1	3	2	3	4	5	2	5	5	4	2	3	3	4	3.4
CO2	3	4	5	3	2	3	4	3	4	3	4	3	5	3.6
CO3	3	4	4	3	2	3	4	5	4	3	4	3	4	3.5
CO4	4	5	3	4	2	4	4	3	3	2	4	4	3	3.4
CO5	4	4	4	5	2	3	4	5	4	4	3	2	5	3.7
Mean Overall Score													3.5	

Result: The Score of this Course is 3.5 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I GAMETOGENESIS, FERTILIZATION AND EARLY DEVELOPMENT [15 hrs]

Production of gametes, cell surface molecules in sperm-egg recognition in animals; embryo sac development and double fertilization in plants; mammalian cleavage and gastrulation. Infertility and its management.

UNIT II GENE MAPPING AND HUMAN GENETICS [15 hrs]

Linkage maps, mapping with molecular markers, mapping by using somatic cell hybrids, development of mapping population in plants. Pedigree analysis, LOD score for linkage testing, karyotypes. Polygenic inheritance, heritability and its measurements, QTL mapping.

UNIT III MORPHOGENESIS AND ORGANOGENESIS IN ANIMALS [15 hrs]

Eye lens induction, limb development and regeneration in vertebrates; differentiation of neurons, post embryonic development- larval formation, metamorphosis; environmental regulation of normal development; sex determination.

UNIT IV MORPHOGENESIS AND ORGANOGENESIS IN PLANTS [15 hrs]

Organization of shoot and root apical meristem; shoot and root development; leaf development and phyllotaxy; transition to flowering, floral meristems and floral development in Arabidopsis and Antirrhinum. Cell aggregation & differentiation in dictyostelium.

UNIT V AGEING AND STEM CELLS [15 hrs]

Ageing- theories of ageing, senescence, programmed cell death (Apoptosis). Stem cells- properties, markers commonly used in stem cells, embryonic stem cells and applications.

TEXTBOOKS:

1. Twyman, 1998. Advanced Molecular biology, Viva books private limited.
2. William H. Elliot & Daphne C. Elliott, Biochemistry and Molecular biology.

REFERENCES:

1. S.B. Primrose & R.M. Twyman, Principle of gene manipulation and genomics
2. Gurbarchan & S. Miglani. Basic genetics, Narosapublishing house
3. David Freifelder, 1987. Molecular biology, 2nd edition.
4. Instant notes in genetics, Winter. P. C., 1999. Bios scientific publishers limited.
5. Balinsky, B.I. An introduction to embryology. W.B.Saunders Publishing Componey.

I M.Sc (Biochemistry)	COURSE TITLE:MICROBIAL BIOCHEMSTRY	COURSE CODE EPB24C
SEMESTER-II		HRS/WK-5
ELECTIVE-III		CREDIT-4

OBJECTIVES

1. . Acquire the basic principles of metabolic processes within the cell.
2. Gain theoretical knowledge about the fermentation techniques and the synthesis of intermediary components.
3. Acquire theoretical knowledge on bio process technology.
4. Gain insight on microbial production of fermented products.
5. Obtain knowledge on infectious microbes.

COURSE OUTCOMES

CO1: To Gain the knowledge about the microbial growth, energy yielding metabolism and characteristics of bacteria, fungi and virus

CO2: To Acquire the knowledge about design, types, functions and operations of fermenter

CO3: To Gain the knowledge about bioprocess technology and various process involved in downstream processing.

CO4: To Understand the microbial production of organic acids, antibiotics and production of foods

CO5: To Gain the knowledge about infectious microbes and its diseases

SEMESTR II	SUB CODE: EPB24C					MICROBIAL BIOCHEMISTRY								HOURS5 CREDITS :4
COURSE OUTCOM ES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	P O 1	PO 2	PO 3	PO 4	PO5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PSO 8	
CO1	3	4	3	3	3	4	4	4	3	3	3	3	3	3.3
CO2	3	4	4	4	4	3	3	4	3	3	3	3	4	3.4
CO3	4	4	3	4	3	3	4	4	3	5	4	3	4	3.7
CO4	4	4	4	3	4	3	3	3	5	5	5	5	3	4.3
CO5	4	4	4	4	3	4	3	3	3	4	3	4	3	3.7
Mean overall score														3.7

Result: The Score of this Course is 3.7 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT-1 MICROBIAL GROWTH AND METABOLISM [15 HRS]

Microbial Growth – balanced and unbalanced; measurement of growth; continuous culture, fed batch culture; growth and environment; growth cycle of bacterial culture; growth of single cells – cell cycle. Energy yielding metabolism –EMP, HMP, TCA – importance in bacteria. Phosphoketolase pathway, ED pathway, characteristics of electron transport in bacteria. Characteristics of Bacteria, virus and fungi. Control of Bacteria and fungi. Importance of virus.

UNIT-2 FERMENTATION [15 HRS]

Design of fermenter- parts of the fermenter and their functions; operation of a bioreactor, types of fermentation processes. Analysis of batch and continuous bioreactions; stability of microbial reactors; Tower fermenter; air lift fermenter; specialized bioreactors; solid substrate fermentation and media formulation.

UNIT-3 DOWNSTREAM PROCESSING [15 HRS]

Bioprocess technology – screening for industrially important microbes, strain improvement for better yield; Inoculum preparation. Downstream processing- Stages in solid-liquid separation, centrifugation, cell disruption, evaporation. Liquid-liquid extraction- extraction of low molecular weight and high molecular weight products. Membrane filtration, precipitation, adsorption, purification by chromatography, formulation.

UNIT-4 MICROBIAL PRODUCTS [15 HRS]

Microbial products – Production of organic acids – source, recovery and uses of citric acid and lactic acid. Production of antibiotics – source, production, recovery and uses of penicillin, cephalosporins and tetracycline; production of bacterial and fungal polysaccharides; commercial production of xanthan gum and Dextran. Microbial Production of foods(yogurt).

UNIT-5 PATHOGENIC MICROBES

[15 HRS]

Pathophysiology of Infectious microbes (Biochemical and Molecular triggering). Bacteria- TB, UTI. Virus- Swine flu, Ebola. Fungus- Candidiasis, Aflatoxicosis. Parasite- Malaria, Dengue. Modifications of host metabolism by viral and bacterial pathogens. COVID-19.

TEXT BOOKS:

1. Ratledge, C. (2001). Basic biotechnology. Kristiansen Cambridge University Press
2. Das, H.K. (2013). Text book of biotechnology. Wiley publications

REFERENCE BOOKS:

1. Srivastava, M.L. (2008). Microbial biochemistry. Narosa.
2. Dubey, R.C. (2010). A text book of Microbiology. S. Chand publishing
3. Clarke, W. (2009). A text book of Biotechnology and industrial microbiology. CBS Publishers & distributors Pvt Ltd.
4. Satyanarayana, U. (2009). Biotechnology. Books and allied Pvt Ltd.
5. Mandelstam, J. (2011). Biochemistry of bacterial growth. Blackwell Scientific Publications Oxford London.

B.Sc (Biochemistry)	COURSE TITLE: BIOMOLECULES-I (60 hrs)	COURSE CODE:BC101A
SEMESTER-I		HRS/WK-4
CORE-1		CREDIT-3

OBJECTIVES:

1. To gain knowledge about the various kinds of bonds that are involved in biological system.
2. To provide information about biochemically important aspects of the chemistry of carbohydrates with examples.
3. To acquire knowledge about nucleic acids and its sequencing methods.
4. To understand the structural principles that govern reactivity/physical properties of molecules as opposed to learning structural detail.
5. To acquire knowledge about the structure and function of heterocyclic compounds.

COURSE OUTCOMES (CO's):

CO1-Students are able to understand the nature and types of chemical bonds and types of isomerism.

CO2-Students are able to comprehend the classification of monosaccharides and their properties.

CO3-Students are able to gain knowledge about classification and properties of disaccharides and polysaccharides.

CO4-Students are able to acquire knowledge about the structure and types of DNA and RNA

CO5-Students are able to exhibit the understanding about the structure and functions of heterocyclic compounds

SEMESTER I	SUB CODE: BC101A					COURSE TITLE: BIOMOLECULES I								HOURS:4 CREDITS:3
COURSE OUTCOME S	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	PO 1	PO 2	PO 3	PO 4	PO5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	
CO1	4	5	4	3	4	4	4	4	3	4	3	4	4	3.5
CO2	3	4	4	4	4	4	3	4	4	4	3	4	4	3.8
CO3	4	4	3	4	4	3	4	4	4	3	4	3	4	3.7
CO4	4	4	4	3	4	3	3	3	5	5	5	5	3	4.3
CO5	4	4	4	4	3	4	3	3	3	4	3	4	3	3.7
Mean overall score													3.8	

Result: The Score of this Course is 3.8 (High)

Association	1% -20%	21% -40%	41% -60%	61% -80%	81% -100%
Scale	1	2	3	4	5
Interval	$0 \leq \text{rating} \leq 1$	$1.1 \leq \text{rating} \leq 2$	$2.1 \leq \text{rating} \leq 3$	$3.1 \leq \text{rating} \leq 4$	$4.1 \leq \text{rating} \leq 5$
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I CHEMICAL BONDING

[12hrs]

Chemical Bonding- nature and types- covalent bond, ionic bond, co-ordinate bond and non-covalent bonds (Hydrogen, hydrophobic, Vander walls interactions). Isomerism - structural isomerism and stereoisomerism. Elemental, chemical compositions and properties of water.

UNIT II CARBOHYDRATES I

[12hrs]

Carbohydrates: definition, classification – monosaccharides, oligosaccharides and polysaccharides; occurrence, structure and functions of monosaccharides (glucose and fructose). General properties with reference to glucose, anomers, epimers, enantiomers and mutarotation. Ring and straight chain structure of glucose (Haworth projection formula). Structure, occurrence, properties and biological importance of disaccharides (sucrose, lactose, maltose). Inversion of sucrose.

UNIT III CARBOHYDRATES II

[12hrs]

Structure, occurrence, properties and biological importance of polysaccharides: Storage polysaccharides (starch, glycogen, inulin), Structural polysaccharides (cellulose, chitin, pectin), Heteropolysaccharides (hyaluronic acid, heparin, chondroitin sulphate). Glycoproteins and proteoglycans (Brief study).

UNIT IV NUCLEIC ACIDS

[12hrs]

Nucleic acids – Bases, Nucleosides and Nucleotides, Phosphodiester linkage, DNA and RNA, Structure –double helical structure of DNA, Properties of DNA – Denaturation, Renaturation, T_m and Hyperchromicity, Effect of acid & alkali on DNA. Types of DNA, Structure of RNA and its major types - tRNA, mRNA and rRNA. Sequencing of DNA: basic principles of the methods: Sanger dideoxy sequencing (chain-termination method)

UNIT V HETEROCYCLIC COMPOUNDS

[12hrs]

Porphyrin nucleus and its classification, functions of Bile pigments. Biological importance of Heterocyclic compounds- Thiazole, Indole, Pyridine, Pteridine, Pyrrole and Imidazole.

TEXT BOOKS:

1. RenukaHarikrishnan. 2002. “Biomolecules and Enzymes. second edition, Indrajya Pathipagam, Madurai.
2. JainJ.L., Sanjay Jain and Nitin Jain. 2005. “Fundamentals of Biochemistry”6thEdition, S.Chand& Company Ltd,New Delhi.

REFERENCE BOOKS:

1. Power & Chatwal. 2001.“Biochemistry”. 4thedition,Himalaya Publishing House.
2. Cambell&Farrell.2007, “Biochemistry”. 5th edition, Delhi, Baba Borkhanath printers.
3. Pattabiraman T.N.2000.“Principles of Biochemistry”.7th edition, Bangalore, Gajanana Book Publishers and Distributors.
4. DebA.C, 2004,“Fundamentals of Biochemistry”. 8th edition, Kolkata, New Central Book Agency.
5. Lehninger, Nelson And Cox. 2007.“Principles of Biochemistry”.6th edUK, Macmillan Worth Publishers.

B.Sc (Biochemistry)	COURSE TITLE: CELL BIOLOGY (60 hrs)	COURSE CODE: BC102A
SEMESTER-I		HRS/WK-4
CORE-2		CREDIT-3

OBJECTIVES:

1. To provide the various mechanisms of membrane transport and its ion channels.
2. To understand the structure and purpose of the basic components of the Cell and its organelles.
3. To understand the phases of cell cycle and cell division.
4. To acquire knowledge about microfilaments and microtubules.
5. To understand the mechanism of cell signalling

COURSE OUTCOMES (CO's):

CO1: To understand the structure and basic components of prokaryotic and eukaryotic cells and also gain insights about various types of membrane transport.

CO2: Students gain knowledge and understanding about the morphology, types and functions of cell organelles such as lysosomes, ribosomes and chloroplast.

CO3: Students acquire knowledge about the morphology and functions of cell organelles like Mitochondria, Golgi complex and micro bodies.

CO4: To understand the structure and functions of chromosomes and learn the phases of cell cycle and cell division.

CO5: Students are able to understand the components and functions of cytoskeleton and cell adhesion molecules.

SEMESTER I	COURSE CODE: BC102A					COURSE TITLE: CELL BIOLOGY								HOURS:4 CREDITS:3
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)								MEAN SCORE OF CO'S
	PO 1	PO 2	PO 3	PO 4	PO5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	
CO1	5	5	2	2	2	5	2	5	3	2	5	5	4	3.6
CO2	5	5	2	2	2	5	2	2	2	2	2	5	3	3.0
CO3	5	5	2	2	2	5	2	2	2	2	2	5	3	3.0
CO4	5	5	2	2	5	5	3	5	5	5	5	5	2	3.9
CO5	5	5	2	2	2	5	2	3	2	2	5	5	3	3.0
Mean overall score													3.3	

Result: The Score of this Course is 3.3 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I CELL AND TRANSPORT

[12 hrs]

Prokaryotic and eukaryotic cell. Cell membrane: chemical composition of Fluid Mosaic Model. Carbohydrate, lipids, proteins and their function in FMM. Membrane transport – Types of transport, passive- (diffusion, facilitated diffusion, osmosis) and active transport- Na^+ - K^+ , ATPase, sodium potassium pump, Ca^{2+} and ATP_{ase} pumps, endocytosis and exocytosis. Symport and antiport. Ion channels, ionophores.

UNIT II CELL ORGANELLES –I

[12 hrs]

Endoplasmic reticulum: occurrence, morphology, types and functions. Enzymes of the ER membrane. Lysosomes: structure, types and chemical composition and enzymes of lysosomes. Ribosomes: structure, types and functions. Chloroplast – structure and functions.

UNIT III CELL ORGANELLES -II

[12hrs]

Mitochondria: morphology and functions. Golgi complex: structure & functions. Microbodies: structure, morphology and functions, peroxisomes and glyoxysomes

UNIT IV CELL DIVISION AND CELL CYCLE

[12 hrs]

Nucleus – structure, nuclear core complex composition and biochemical function, chromosome structure -polytene and lambrush chromosome with example. Cell cycles– Phases of cell cycle, mitotic and meiotic division. Apoptosis and necrosis.

UNIT-V CYTOSKELETON & CELL SIGNALLING

[12hrs]

Cytoskeleton - components and biological functions. Microtubules, Microfilaments and IF proteins: Distribution, chemical composition and functions. Cell-cell adhesion- functions of Cadherins, desmosomes, gap junction & tight junction. Cell signaling: GPCR with reference to cAMP as secondary messenger.

TEXT BOOKS:

1. Verma P.S and Agarwal P.K. 2002. "Cell biology, Genetics, Molecular biology, Evolution and Ecology". 24th edition, S. Chand & Company Ltd.New Delhi.
2. De Robertis EDP and De Robertis EMF.2003. "Cell and Molecular Biology", 8thedition, B.I. Waverly Pvt Ltd.New Delhi.

REFERENCE BOOKS:

1. Sheela A. Stanly.2008. "Cell biology for biotechnologist". I Edition, Narosa Publishing House Pvt-Ltd.
2. Prakash, Lohar S. 2007, "Cell and Molecular biology" I edition, MJP publishers, Chennai.
3. Darnell J, Lodish H, Baltimore D. 2005. "Molecular cell biology", England, W. H Freeman.
4. Gerald karp. Cell biology. 2001. 7th edition –International student version, wiley publications.
5. Lehninger, Nelson And Cox. 2007."Principles of Biochemistry".6th edUK, Macmillan Worth Publishers.

I B.Sc (Biochemistry)	COURSE TITLE:BIOMOLECULES-II (60 hrs)	COURSE CODE:BC203A
SEMESTER-II		HRS/WK-4
CORE-3		CREDIT-3

OBJECTIVES

1. To provide information about biochemically important aspects of the classification & chemistry of lipids.
2. To gain the knowledge about the classification of amino acid and proteins.
3. To understand the general reactions and the structure of proteins.
4. To understand the determination of protein structure sequences.
5. To acquire knowledge about the structure and function of biologically important peptides/proteins.

COURSE OUTCOMES (CO's):

CO1: Students are able to understand the classification, structure and functions of lipids and their properties.

CO2: Students are able to gain knowledge about the classification of amino acids and their properties.

CO3: Students are able to learn and understand the different classification of proteins, properties, and their separation methods.

CO4: Students are able to acquire knowledge about the different levels of protein structure apart from the determination of amino acid sequences and chemical synthesis of proteins.

CO5: To acquire knowledge about the structure and function of biologically important peptides.

SEMESTER II	COURSE CODE:BC203A					COURSE TITLE: BIOMOLECULES-II									HOURS: 4 CREDIT S:3
COURSE OUTCOMES	PROGRAMME OUTCOMES(POS)					PROGRAMME SPECIFIC OUTCOMES(PSOS)									MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8		
CO1	3	5	2	2	2	4	4	4	3	2	4	4	4	3.3	
CO2	5	4	2	3	2	5	5	5	5	3	3	4	3	3.8	
CO3	4	5	3	2	3	4	4	4	4	3	4	3	4	3.6	
CO4	5	4	2	2	2	3	5	5	3	2	3	4	4	3.4	
CO5	4	5	2	3	3	5	5	5	5	2	4	4	4	3.4	
Mean overall score														3.5	

Result: The Score of this Course is 3.5 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I - LIPIDS

[12hrs]

Lipids - definition and classification of lipids, Physical properties, classification of fatty acids – saturated, unsaturated and essential fatty acids, properties of fatty acids (Iodine number, Acid number, RM number, Saponification number and Rancidity). Structure and function of commonly occurring phospholipids (Lecithin, cephalin, phosphatidyl inositol and phosphotidylserine)Sphingomyelin, plasmalogen, sterols(cholesterol).

UNIT II - AMINO ACIDS

[12hrs]

Classification of Amino acids based on structure & polarity. Essential & non essential amino acids, Non protein amino acids. General properties of amino acids. Titration curve of amino acids. Classification of proteins based on size and shape, solubility, composition & functions.

UNIT III – PROTEIN STRUCTURE

[12hrs]

Peptide bond. General reactions of proteins (Reactions of both NH₂ group & COOH group). Structure of proteins- primary, secondary, tertiary & quaternary, forces stabilizing the structure of proteins. Ramachandran plot.

UNIT IV - PROTEINSEQUENCE DETERMINATION

[12hrs]

Separation technique of protein-Ammonium salt fractionation, solvent fractionation, dialysis and lyophilisation. Determination of amino acid sequence, N -terminal determination- Edman's and Dansylchloride method. C- terminal determination-enzymatic method, solid phase polypeptide synthesis.

UNIT V - BIOLOGICAL IMPORTANT PROTEINS

[12hrs]

Structure and functions of biologically important peptides- Glutathione, vasopressin & oxytocin. Biologically important proteins- structure and functions of Globular proteins (Haemoglobin, Myoglobin), Fibrous protein (Keratins, collagen).

TEXT BOOKS:

1. Jain J.L. 2005. Fundamentals of biochemistry. 6th Edition, S. Chand Publication.Chennai.
2. Satyanarayana.U. 2019. Fundamentals of Biochemistry. Allied & Books Pvt Ltd, Calcutta.
3. Deb, A.C., 2016. Fundamentals of Biochemistry, New Central Agency, Calcutta.

REFERENCE BOOKS:

1. Power & Chatwal. 2001. "Biochemistry". 4th edition, Himalaya Publishing House.
2. Cambell&Farrell.2007, "Biochemistry". 5th edition, Delhi, Baba Borkhanath printers.
3. Pattabiraman T.N. 2000. "Principles of Biochemistry".7th edition, Gajanana Book, Publishers and Distributors, Bangalore.
- 4.DebA.C. 2004. "Fundamentals of Biochemistry". 8th edition, New Central Book Agency, Kolkata.S
5. Lehninger, Nelson And Cox. 2007."Principles of Biochemistry".6th edUK, Macmillan Worth Publishers.

I B.Sc (Biochemistry)	COURSE TITLE : NUTRITIONAL BIOCHEMISTRY (60 hrs)	COURSE CODE: BC204A
SEMESTER-II		HRS/WK-4
CORE-4		CREDIT-3

OBJECTIVES:

1. To study the nutritional aspects of various foodstuffs and its measurement.
2. To gain the knowledge about the biological value of proteins.
3. To study the functional aspects of vitamins
4. To understand the nutritional significance of minerals.
5. To enable them to gain knowledge in the nutritional management of different age groups

COURSE OUTCOMES (CO's):

CO1: To understand and demonstrate their nutritional measurement of different food stuffs.

CO2: Able to gain knowledge about the biological value of proteins by different methods

CO3: To gain insights depth about the deficiency and functional aspects of different types of vitamins

CO4: To acquire knowledge about the physiological functions and deficiency of minerals

CO5: Able to demonstrate different dietary plan for different age groups

SEMESTER II	COURSE CODE : BC204A					COURSE TITLE :NUTRITIONAL BIOCHEMISTRY								HOURS:4 CREDITS: 3
COURSE OUTCOMES	PROGRAMME OUTCOMES(POS)					PROGRAMME SPECIFIC OUTCOMES(PSOs)								MEAN SCORE OF CO'S
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
CO1	5	4	3	4	4	3	4	3	5	4	3	4	4	3.8
CO2	4	3	3	5	5	3	3	4	5	4	5	4	4	4.0
CO3	3	5	3	3	3	4	5	3	3	5	4	3	5	3.8
CO4	3	4	4	5	5	3	2	4	5	4	5	3	4	3.7
CO5	5	3	3	3	3	2	3	3	5	3	3	2	3	3.2
Mean overall score													3.7	

Result: The Score of this Course is 3.7 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **High** association with Programme Outcome and Programme Specific Outcome

UNIT I - FOOD NUTRITION

[12 hrs]

Basic food groups – Energy yielding, body building and protective foods. Basic concepts of energy expenditure, Unit of energy, measurement of foodstuffs by bomb calorimeter, Calorific value of proteins, carbohydrates and lipids, RQ of foods, Basic metabolic rate (BMR), its measurements and influencing factors, SDA of foods. Role of fibre and dietary lipids (Omega 3 and 6 fatty acids) in our body.

UNIT II - BIOLOGICAL VALUE OF PROTEIN

[12hrs]

Biological value of proteins, evaluation of proteins by nitrogen balance method – DC, BV, NPU, Single Cell Proteins (SCPs) (e.g., spirulina only). PCM: Kwashiorkor and Marasmus- preventive and curative measures.

UNIT III - VITAMINS

[12hrs]

Vitamins –classification- sources, structure, RDA, deficiency and functions of fat soluble vitamins (A,D,E,K) and water soluble vitamins (B – complex – B₁, B₂, B₅, B₆, B₉, B₁₂ and vitamin – C). Role of Vitamin as antioxidant and co-factor.

UNIT IV - MINERALS

[12hrs]

Minerals – physiological role and nutritional significance of principal and essential trace elements: Principal elements-sodium, potassium, calcium. Trace elements-Magnesium, phosphorous, copper, zinc, iron, iodine, fluorine, selenium, Molybdenum.

UNIT V - NUTRITIONAL REQUIREMENTS

[12hrs]

Composition of balanced diet. RDA. Nutritional requirements for infants, children, adolescents, adult (male and female), pregnant and lactating women and old age.

TEXT BOOKS:

1. Swaminathan M. 1987 “Food and Nutrition Vol I&II”, Second edition, Bappco Publishers, Bangalore.
2. ChatterjeaM.N and Rana Shinde. 2005” Text book of Medical Biochemistry”,4th edition, Jaypee Publishers, New Delhi.

REFERENCE BOOKS:

1. Patricia Trueman. 2007. "Nutritional Biochemistry" I edition, MJ publishers, Chennai.
2. Darnell J, Lodish H, Baltimore D.1986. "Molecular Cell Biology". WH Freeman publishers England.
3. William's. Basic Nutrition and Diet Therapy Williams 14th edition, Staci Nix.
4. Sathyanarayana U and Chakrapani U." Biochemistry", Books and Allied Publishers.
5. A.C. Deb. 1983. "Fundamentals of Biochemistry". 8th edition, New Central Book Agency, Kolkata.

I B.Sc (Biochemistry)	COURSE TITLE:MAIN PRACTICAL - I	COURSE CODE:BCP201A
SEMESTER-I		HRS / WEEK: 8
PRACTICAL – I		CREDITS: 6

OBJECTIVES:

1. Awareness of good laboratory practices.
2. Laboratory safety and management of hazards in the laboratory.
3. Use of balances-common, analytical and electronic balances.
4. Calibration of glass wares - pipettes, burettes and volumetric flasks (demonstration)

VOLUMETRIC ANALYSIS

5. Estimation of Glycine by formal titration method
6. Estimation of ascorbic acid using dichlorophenolindophenol dye as link solution
7. Determination of Saponification value of an edible oil
8. Determination of acid number of an edible oil
9. Determination of iodine value of an edible oil
10. Estimation of chloride by Mohr's method and Volhard's method
11. Estimation of reducing sugar from biological fluids by benedict's method
12. Titration curve of amino acids

BIOCHEMICAL PREPARATION

13. Preparation of albumin from egg
14. Preparation of albumin from milk
15. To find out the moisture and water content in food stuffs.

QUALITATIVE ANALYSIS

16. Qualitative analysis of carbohydrates - Glucose, fructose, arabinose, maltose, lactose, galactose, dextrin, mannose, sucrose and starch
17. Qualitative analysis of amino acids - Tyrosine, tryptophan, arginine, Histidine, Proline and cysteine

SPOTTERS.

18. Cell division identification (mitosis & meiosis)
19. BMI calculation

YEAR– II	BIOETHICS AND INTELLECTUAL PROPERTY RIGHTS (For those students admitted in the year 2021 – 22and onwards)	21EPM35A
SEMESTER-III		HRS/ WK-3
Elective– VIIA		CREDIT-2

Objective: To make the students completely equipped with strategies of patent rights

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Acquires knowledge about concept of bioethics

CO2: Learns about Ethics committees

CO3: Attains knowledge about intellectual property

CO4: Understands the Patents, Copyrights and related rights

CO5: Gains knowledge about Indian IPR legislations

SEMESTER: III	COURSECODE: 21EPM35A				COURSE TITLE: BIOETHICS AND INTELLECTUAL PROPERTY RIGHTS				HOURS: 3	CREDITS: 2
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES(PSO)				MEANS CORE OF Cos	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	3	4	4	3	3	3	3	4	3.3	
CO2	3	3	3	4	3	3	3	5	3.2	
CO3	3	3	3	4	3	3	4	5	3.5	
CO4	3	3	3	3	3	3	4	5	3.3	
CO5	3	4	3	3	5	3	3	5	3.6	
Mean Overall Score									3.4	

Result: The score of this course is 3.4 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit-1

(9 Hrs)

Bioethics – definition - The birth of the concept of ‘bioethics’ - History of Bioethics as a Discipline - Bioethics as bridge between facts and values - Bioethics versus medical ethics - Health and disease as values - Principles of bioethics - Health care decisions include facts and values, Universal Declaration on Bioethics and Human Rights.

Unit-2

(9 Hrs)

Ethics committees – Need, Types, Composition, Function - Human dignity and human rights - Benefit and harm – Definitions, comparing harms and benefits; Autonomy and individual responsibility, health care provider-patient relationship; ‘informed consent’ – Animal Ethics Committee.

Unit-3**(9 Hrs)**

Introduction – Invention and Creativity, intellectual property (IP) – Importance; Protection of IPR Basic types of property (i) Movable property (ii) Immovable property and (iii) Intellectual property; International convention relating to intellectual property-Establishment of WIPO, Mission and Activities: General Agreement on Trade and Tariff(GATT).

Unit-4**(9 Hrs)**

Patents, Copy rights and related rights, Trade Marks and rights arising from trade mark registration, Industrial designs, Protection of Geographical Indications at national and international levels-application procedures.

Unit-5**(9 Hrs)**

Indian IPR legislations; Patent Ordinance and the Bill; National Intellectual property policy; Case studies on patents-Basmati rice, Turmeric, Neem.

Textbook

- Bioethics for Scientists. 2002. John A. Bryant, Linda Baggott la Velle, John F. Searle. Wiley.
- Biotechnology and Intellectual Property Rights. 2014. Kshitij Kumar Singh. Springer India.

Reference Books

- An Introduction to Bioethics. 4th Edition, 2009. Thomas A. Shannon and Nicholas J. Kockler. Paulist Press.
- Contemporary issues in Bioethics. 2013. Tom L. Beauchamp. Jeffrey Khan, LeRoy Walters, Anna C. Mastroanni.
- Intellectual Property in Asia. 2009. Paul Goldstein and Joseph Straus. Springer Science & Business Media.
- Law Relating to Intellectual Property Rights. 2nd Edition, 2007. Ahuja. V.K. Lexis Nexis.
- Hand book of Indian Patent Law and Practice. 1998. Subbarab, N. R. Viswanathan Printers and Publishers Pvt. Ltd.

YEAR– II	BIOPHYSICS (For those students admitted in the year 2021 – 22and onwards)	21EPM35B
SEMESTER-III		HRS/ WK-3
Elective– VIIB		CREDIT-2

Objective: To provide detailed knowledge about advances in medical biophysics and medical instrumentations.

Course Outcomes:

Upon successful completion of the course, the student:

CO1: learns about the origin of biopotency, electrode electrolyte interface with skin surface etc.

CO2: gains knowledge on ECG, EEG,EMG, ERG and EOG

CO3: learns about the importance of bio amplifiers in ECG

CO4: understands the measurement of non-electrical parameter and its importance in monitoring human health

CO5: gains knowledge about analysis and instruments used in biochemical sensors to monitor human health

SEMESTER: III	COURSE CODE: 21EPM35B				COURSE TITLE: BIOPHYSICS				HOURS: 3	CREDITS: 2
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEAN SCORE OF Cos	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	3	4	3	4	3	3	3	4	3.3	
CO2	3	3	3	4	3	4	3	4	3.2	
CO3	3	3	3	4	3	3	4	5	3.5	
CO4	3	3	3	3	3	3	4	5	3.3	
CO5	3	4	4	3	4	3	3	5	3.6	
Mean Overall Score									3.4	

Result: The score of this course is 3.4 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit-1

(9 Hrs)

Bio potential electrodes: Origin of bio potential and its propagation. Electrode-electrolyte interface, electrode– skin interface, half-cell potential, impedance, polarization effects of electrode–nonpolarizable electrodes. Types of electrodes–surface, needle and microelectrodes and the irequivalent circuits. Recording problems-measurement with two electrodes.

Unit-2**(9 Hrs)**

Electrode configurations: Biosignals characteristics—frequency and amplitude ranges. ECG – Einthoven's triangle, standard 12 lead system. EEG – 10-20 electrode system, unipolar, bipolar and average mode. EMG, ERG and EOG— unipolar and bipolar mode.

Unit-3**(9 Hrs)**

Bioamplifiers: Need for bio-amplifier—single ended bio-amplifier, differential bio-amplifier – right leg driven ECG amplifier. Band passes filtering, isolation amplifiers – transformer and optical isolation - isolated DC amplifier and AC carrier amplifier. Chopper amplifier. Power line interference.

Unit-4**(9 Hrs)**

Measurement of non electrical parameters: Temperature, respiration rate and pulse rate measurements. Blood Pressure: indirect methods - auscultator method, oscillometric method, direct methods: electronic manometer, Pressure amplifiers - systolic, diastolic, mean detector circuit. Blood flow and cardiac output measurement: Indicator dilution, thermal dilution and dye dilution method, Electromagnetic and ultrasound blood flow measurement.

Unit-5**(9 Hrs)**

Bio-chemical measurement: Biochemical sensors - pH, PO₂ and PCO₂, Ion selective Field effect Transistor (ISFET), Immunologically sensitive FET (IMFET), Blood glucose sensors - Blood gas analyzers, colorimeter, flame photometer, spectrophotometer, blood cell counter, autoanalyzer (simplified schematic description).

TextBook

- Bioinstrumentation. 2011 (1st Edition). Veerakumari L. MJ Publishers.

Reference Books

- Medical Instrumentation Application and Design. 2004. John G. Webster. John Wiley and sons, New York.
- Handbook of Biomedical Instrumentation. Khandpur R.S. 2003. Tata McGraw-Hill, New Delhi.
- Introduction to Biomedical Equipment Technology. 2004. Joseph J. Carr and John M. Brown. Pearson Education.
- Biomedical Instrumentation and Measurement. 2007. Leslie Cromwell. Prentice hall of India, New Delhi.
- Standard Handbook of Biomedical Engineering & Design. 2003. Myer Kutz. McGraw-Hill Publisher.

YEAR– II	BIOTECHNIQUES (Forthosestudentsadmittedintheyear2021 –22and onwards)	21EPM42A
SEMESTER-IV		HRS/ WK-3
ELECTIVE – VIII A		CREDIT-2

Objective: To make the students familiar with basics and advanced techniques routinely used in biosciences.

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Understands the basic Microscopy.

CO2: Learns the importance of Electron Microscopy and its application.

CO3: Acquires knowledge about basic Chromatographic techniques.

CO4: Gains knowledge on Advanced Chromatographic techniques and its application.

CO5: Learns the importance of Modern Cytogenetic techniques and Immunotechniques.

SEMESTER:I V	COURSE CODE: 21EPM42A				COURSE TITLE: BIOTECHNIQUES				HOURS: 3	CREDITS:2
COURSEO UTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEANSORE OF Cos	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	3	4	3	4	3	3	3	4	3.3	
CO2	3	3	3	4	3	4	3	4	3.2	
CO3	3	3	3	4	3	3	4	5	3.5	
CO4	3	3	3	3	3	3	4	5	3.3	
CO5	3	4	4	3	4	3	3	5	3.6	
Mean Overall Score									3.4	

Result: The score of this course is 3.4 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit-1

(9 Hrs)

Microscopic techniques: Visualization of cells and subcellular components by light microscopy, Darkfield Microscopy, resolving powers of different microscopes, microscopy of living cells.

Unit-2

(9 Hrs)

Electron Microscopy: Scanning and transmission microscopes, different fixation and staining techniques for EM, freeze-etch and freeze-fracture methods for EM, image processing methods in microscopy.

Unit-3 (9 Hrs)
Chromatography: Principles – Planar Chromatography (Paper and Thin – Layer) – Column Chromatography–Ion-Exchange Chromatography-Affinity Chromatography

Unit-4 (9 Hrs)
Advanced Chromatography: Gel Exclusion Chromatography – High Performance Liquid Chromatography (HPLC) – Gas Chromatography - LC Mass Spectrophotometry. Nano LC.

Unit-5 (9 Hrs)
Modern Cytogenetic techniques and Immunotechniques: Flowcytometry, Nano pro Immunoassay,Immuno adsorption and Immunofluorescence microscopy,detection of molecules in living cells, insitu localization by techniques such as FISH and GISH.

Text Book

- Biophysical Chemistry Principles and Techniques. 1997. Upadhyay, Upadhyay and Nath.Himalaya Publications.

Reference Books

- Modern Experimental Biochemistry. 3rd Edition, 2000. Rodney Boyer. Addison Wesley Longman, Inc.
- Molecular Biomethods - Hand book. 2nd Edition, 2008. John M. Walker and Ralph Rapley. Human Press, New Jersey.
- Microbiology.6thEdition,2005.L.M.Prescott,J.P.Harleyand D.A.Klein. McGraw Hill,Boston.

YEAR– II	MOLECULAR TECHNIQUES (For those students admitted in the year 2021 –22 and onwards)	21EPM42B
SEMESTER–IV		HRS/ WK-3
ELECTIVE – VIII B		CREDIT-2

Objective: To make the students familiar with the application of molecular techniques and its importance in research.

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Acquires knowledge about various electrophoretic techniques

CO2: Attains knowledge about Advanced chromatographic techniques

CO3: Learns about techniques used to study Molecular polymorphism

CO4: Understands various Extraction methods

CO5: Gains knowledge about Gene sequencing methods

SEMESTER: IV	COURSE CODE: 21EPM42B				COURSE TITLE: MOLECULAR TECHNIQUES				HOURS: 3	CREDITS: 2
COURSEO UTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES(PSO)				MEAN SCORE OF Cos	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	3	4	4	3	3	3	3	4	3.3	
CO2	3	3	3	4	3	3	3	5	3.2	
CO3	3	3	3	4	3	3	4	5	3.5	
CO4	3	3	3	3	3	3	4	5	3.3	
CO5	3	4	3	3	5	3	3	5	3.6	
Mean Overall Score									3.4	

Result: The score of this course is 3.4 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit-1

(9 Hrs)

Electrophoresis: Pulse field gel Electrophoresis (PFGE), Isoelectric focusing, Immunoblotting, Protein Electrophoresis, Free zone capillary Electrophoresis; Nanoprotein assay. Radiolabelling of peptides and proteins

Unit-2

(9 Hrs)

Advanced chromatographic techniques: Fast performance liquid chromatography (FPLC), size Exclusion chromatography, Hydrophobic interaction chromatography. Affinity chromatography, Reverse HPLC.

Unit-3**(9 Hrs)**

Molecular polymorphism: Random Amplification of Polymorphic DNA(RAPD), Restriction fragment length polymorphism (RFLP) RT-Polymerase chain reaction (PCR), Peptide mass fingerprinting, Microarray DNA microarray, Protein Microarray, Crisper tech.

Unit-4**(9 Hrs)**

Extraction methods: Genomic DNA isolation from bacteria, Extraction of total RNA from bacteria, Extraction of total cellular proteins from bacteria. High speed chromosomal sorting by flow cytometry.

Unit-5**(9 Hrs)**

Gene sequencing methods: Genomic analyzing techniques, comparative genomic hybridization, comparative genomics, gene expression profiling, wide analysis of gene expression, whole genome amplification. Serial analysis of gene expression (SAGE).

TextBook

- Recombinant DNA & Biotechnology - A guide for students. 2nd Edition, 2001. Helen Kreuzer and Adrienne Massey. American Society for Microbiology.

Reference Books

- Molecular Biomethods - Hand book. 2nd Edition, 2008. John M. Walker and Ralph Rapley. Human Press, New Jersey.
- Gene Cloning and DNA analysis: An Introduction. 8th Edition, 2020. T.A. Brown. Wiley-Blackwell.
- Essentials of Biotechnology.2008.R.C.Sobti and Suparna S.Pachouri.CRCPress

YEAR - II	SOIL AND AGRICULTURAL MICROBIOLOGY (For those students admitted in the year 2021 – 22 and onwards)	21PMB31
SEMESTER - III		HRS/WK - 4
CORE - 9		CREDITS - 4

Objective: To make the students understand the importance of microbiology in the field of soil and agriculture

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Understands the soil properties and the role of soilborne microbes

CO2: Understands the cyclical movements of important plant nutrients in the soil

CO3: Gains knowledge about different biofertilizers and their production

CO4: Understands different biopesticides and their applications

CO5: Knows important plant diseases of India and their control

SEMESTER: III	COURSE CODE: 21PMB31				COURSE TITLE: SOIL AND AGRICULTURAL MICROBIOLOGY				HOURS: 4	CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES (PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEAN SCORE OF COs	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	4	3.5	4	3.5	4	4	4	4	3.87	
CO2	3.5	3.5	4	4	4	3.5	3.5	4	3.75	
CO3	3.5	3	4	3.5	3.5	4	3.5	3.5	3.56	
CO4	3	3.5	3.5	3.5	4	3.5	3	3.5	3.43	
CO5	3.5	3.5	3.5	4	4	3.5	3	4	3.62	
Mean Overall Score									3.64	

Result: The score of this course is 3.64 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit –1

(12Hrs)

Soil- Chemical and physical properties of soil -Types-Soil as a habitat for microbes - Microflora of various soil types-Influence of soil and environmental factors on soil microflora - Role of microorganisms in soil fertility- Interaction among soil microorganisms-Interaction between plants and microorganisms - Rhizosphere, Phyllosphere, Spherosphere; Effect of soil borne microbes on plant (Harmful and Beneficial) - Plant Growth Promoting Rhizobacteria (PGPR), Mechanisms of plant growth promotion by PGPR.

Unit –2

(12Hrs)

Microorganisms in soil process - Carbon cycle, Nitrogen cycle, Iron cycle, Phosphorus cycle - Nitrogen fixation – Types - symbiotic, free living and associative symbiotic - Mechanism of nitrogen fixation- Genetics of nitrogen fixation- Solubilizationof nutrients (P, K and Zn) - Mobilization of nutrients (Mycorrhizae).

Unit - 3**(12Hrs)**

Biofertilizers - Definition, types and importance - Standards and quality control- Carrier materials- Isolation and mass multiplication of bacterial biofertilizers (*Rhizobium*, *Azospirillum*, *Azotobacter*, *Pseudomonas*) - Isolation and mass multiplication of fungal biofertilizer (VAM) - Isolation and mass multiplication of algal biofertilizers (BGA, *Azolla*)- Applications - National and regional biofertilizers production and development centers- Advantages and disadvantages of biofertilizers.

Unit –4**(12Hrs)**

Problems associated with chemical pesticides; Biocontrol agents – Definition, Types and importance, Examples and mechanisms of controlling – *Bacillus thuringiensis*, *Pseudomonas fluorescence*, *Trichoderma viridae*, NPV, Entamopathogenic protozoa and Entamopathogenic nematodes - Production and applications; Advantages and disadvantages; Microbial genes in creation of pest resistant plants.

Unit –5**(12Hrs)**

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 - *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, 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.

Text Books

- Soil Microbiology - Soil microorganisms and Plant growth. 4th Edition, 2017. Subba Rao, N.S. Oxford & IBH publishing Co. Pvt. Ltd.
- Agricultural microbiology. 2nd Edition, 2004. Rangaswami, G., and Bhagyaraj, D.J. Prentice Hall of India, New Delhi.

Reference Books

- Plant diseases. 10th Edition. Singh, R.S. 2017. Medtech, New Delhi
- Diseases of crop plants in India. 1998. 4th Edition. G. Rangaswami, A. Mahadevan. Prentice - Hall of India Private Ltd., New Delhi.
- A Text book of Microbiology. 2013. Dubey, R.C., and Maheshwari, D.K. S Chand Publishing, New Delhi.
- Biofertilizers: Commercial production Technology and quality control. Hyma, P. 2017. Random publishers. New Delhi.
- Biofertilizer Technology. 2019. Ramanathan, N. Kalyani Publishers, New Delhi.

YEAR - II	r-DNA TECHNOLOGY (For those students admitted in the year 2021 – 22 and onwards)	21PMB32
SEMESTER - III		HRS/WK - 4
CORE - 10		CREDITS - 4

Objective: To make the students familiar with techniques in recombination technology.

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Learns the available genetic engineering tools & molecular techniques

CO2: Learns the importance of Cloning vectors

CO3: Acquires knowledge about Cloning strategies

CO4: Understands the expression of cloned DNA molecules

CO5: Learns the importance of Genome Editing using r-DNA technology.

SEMESTER: III	COURSE CODE: 21PMB32				COURSE TITLE: r-DNA TECHNOLOGY				HOURS: 4	CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES (PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEAN SCORE OF COs	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	3.5	3.5	4	3.5	4	3	4	3	3.56	
CO2	4	4	3.5	4	3	3.5	3.5	4	3.69	
CO3	3.5	3.5	4	3	4	3.5	4	3.5	3.63	
CO4	4	4	3.5	3	3.5	4	3	3	3.50	
CO5	4	3.5	4	3	4	3.5	4	3	3.63	
Mean Overall Score									3.60	

Result: The score of this course is 3.60 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit 1

(12 Hrs)

Molecular Techniques: Agarose gel electrophoresis, Nucleic acid blotting, Southern blotting, Northern blotting, Western blotting, Transformation of *E. coli* - **Cutting and Joining DNA molecules** - Host-controlled restriction and modification, Restriction Endonucleases, Nomenclature, Mechanical shearing of DNA, Joining DNA molecules (DNA ligase, Double linkers, Adaptors, Homopolymer tailing)

Unit 2

(12 Hrs)

Cloning vehicles for use in *E. coli*: Construction and characterization of a new cloning vehicle: pBR322, Improved vectors derived from pBR322, Direct selection vectors, Low-copy-number plasmid vectors, Runway plasmid vectors - **Bacteriophage and cosmid vectors for *E. coli*** - Bacteriophage λ , Vector DNA, Improved phage λ vectors, Packaging phage λ DNA in vitro, Cosmid vectors, Phasmid vectors.

Unit 3**(12Hrs)**

Cloning Strategies, Gene Libraries and cDNA Cloning: Cloning strategies, Chromosome walking, cDNA cloning, Full-length cDNA cloning, Genomic and cDNA libraries; Recombinant Selection and Screening - South-Western screening for DNA-binding proteins, Nucleic acid hybridization methods.

Unit4**(12 Hrs)**

Expression of Cloned DNA molecules in *E. coli*: Expression of fusion proteins, Manipulation of cloned genes to achieve expression of native proteins, Secretion of proteins, Detecting expression of cloned genes, Maximizing the expression of cloned genes, Constructing the optimal promoter, The effect of plasmid copy number.

Unit 5**(12Hrs)**

Genome Editing Technology: DNA finger printing and Foot printing, Restriction fragment Length Polymorphism (RFLP) analysis, RAPD, Genome Editing: ZFN, TALENS, CRISPR. Applications of recombinant DNA technology - Production of Recombinant and Synthetic Vaccines; Genetically modified microorganisms; Recombinant proteins as therapeutic agents; Ethical and legal issues in rDNA technology.

Text Book

- Principles of Gene manipulation. 5th Edition, 1994. Old, R.W. and S.B. Primrose. Blackwell Science, Oxford.

Reference Books

- Molecular Biology of the Gene. 5th Edition, 2004. James D. Watson, Tania A. Baker, Stephen P. Bell, Alexander Gann, Michael Levine, Richard Losick. Pearson Education. Inc.
- Recombinant DNA and Biotechnology: Guide for Teachers. 2nd Edition, 2001. Helen Kruez. ASM publications.
- From Genes to Clones. 2003. Ernst-L. Winnacker. Panima Publishing Corporation, New Delhi.
- Genetics - A Molecular Approach. 2004. Brown, T.A. Chapman Hall. London.
- Molecular Biotechnology - Principles and Applications of Recombinant DNA technology. 2006. Glick, B.R. and J.J. Pasternak. ASM press, Washington.

YEAR - II	FOOD MICROBIOLOGY (For those students admitted in the year 2021 – 22 and onwards)	21PMB33
SEMESTER - III		HRS/WK - 4
CORE - 11		CREDITS - 4

Objective: To make the students understand the importance of microbiology in the field of food industry.

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Recognizes the principles of food preservation and the factors that influence growth and survival of microorganisms in food.

CO2: Understands the importance of fermented dairy and nondairy foods and probiotics.

CO3: Acquires knowledge on food spoilage and foodborne diseases.

CO4: Comprehends and applies the standard methods for microbiological analysis of foods.

CO5: Gains knowledge on food regulatory agencies and policies related to food safety and quality.

SEMESTER: III	COURSE CODE: 21PMB33				COURSE TITLE: FOOD MICROBIOLOGY				HOURS: 4	CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES (PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEAN SCORE OF COs	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	4	4	4.5	4	4	4	3.5	4	4.0	
CO2	4	4	4	3.5	4	3.5	2.5	3	3.6	
CO3	4	3.5	3.5	3.5	4	4	3	4	3.7	
CO4	3.5	4	3	3.5	4	3.5	3	3	3.4	
CO5	4	3.5	4	4	4	4	3	3.5	3.8	
Mean Overall Score									3.7	

Result: The score of this course is 3.7 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit - 1

(12 Hrs)

Importance of studying food and dairy microbiology; Microorganisms important in food microbiology; Food as a substrate for microorganisms, Extrinsic and Intrinsic factors; Food preservation methods with principles - physical irradiation, drying, heat processing - high temperature, low temperature; modification of atmosphere; Food additives – sodium chloride, sugar, vinegar, class I and class II preservatives.

Unit - 2

(12 Hrs)

Food fermentations – Meat Products, Fish Products, Idly, Breads, Sauerkraut, Pickles; therapeutic and nutritional value of fermented foods; Milk and milk products - fermented dairy products - butter, cheese, yogurt, acidophilus milk; Spoilage and defects of fermented dairy products; Milk preservation methods – pasteurization, sterilization; Probiotics, Prebiotics and Synbiotics - Definition and Health benefits.

Unit - 3**(12 Hrs)**

Contamination and spoilage: vegetables, fruits, cereals, meat products, fish and sea foods, Poultry and egg; Food poisoning and food borne infections by bacteria such as *Brucella*, *Bacillus*, *Clostridium*, *Escherichia*, *Salmonella*, *Shigella*, *Staphylococcus*, *Vibrio*, fungi and viruses; bacterial and fungal exo- and endo- toxins; Food borne disease outbreaks.

Unit – 4**(12 Hrs)**

Detection of food borne microorganisms: Culture, Microscopic and sampling methods – Chemical methods (Thermostable nuclease, Limulus lysate for endotoxin, Adenosine triphosphate measurement), Immunological Methods (Serotyping, Fluorescent Antibody, Enrichment serology, Radioimmunoassay and ELISA), Molecular Genetic methods (Nucleic acid probe, PCR), Fingerprinting methods (AFLP, Ribotyping, Microarrays) and Physical methods (Biosensor, Flow Cytometry).

Unit – 5**(12 Hrs)**

Food safety and Quality control: Principles of quality control and microbiology criteria, Indicators of product quality, Indicators of food safety, Predictive Microbiology, Hazard analysis Critical Control Point (HACCP), Good Manufacturing process (GMP) - Food control agencies and its regulations (Codex Alimentarius, NABL, FDA, EPA and ISI).

Text Book

- Modern food microbiology. 7th Edition, 2005. James M. Jay, Martin J. Loessner, David A. Golden. Springer Science & Business.

Reference Books

- Food Microbiology. 5th Edition, 2013. William C. Frazier, Dennis C. Westhoff, N. M. Vanitha. McGraw-Hill Education (India).
- Food Microbiology, 1st Edition, 2016. Foster, W. M. CBS Publishers and Distributors Pvt. Ltd., New Delhi.
- Food Microbiology, 4th Edition, 2015. Adams, M.R., Moss, M.O and McClure, P. J. RSC Publication, CPI Group (UK) Ltd., Croydon, UK.
- Food Microbiology - Fundamentals and Frontiers. 2nd Edition, 2001. Doyle, M. P., L. R. Beuchat and T. J. Montville. ASM Press. Washington, D.C.
- The Microbiological Safety and Quality of Food. 2000. Barbara M. Lund, Baird-Parker, Gould G.W. An Aspen publication, Maryland, U.S.A.

YEAR - II	HUMAN INFECTIONS AND DIAGNOSIS (For those students admitted in the year 2021 – 22 and onwards)	21PMB34
SEMESTER - III		HRS/WK - 4
CORE - 12		CREDITS - 4

Objective: To make the students familiar with clinical manifestations and diagnosis of various microbial infections.

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Will be able to describe various methods of diagnosis

CO2: Will be able to describe the infections in Respiratory and Genitor-urinary tract

CO3: Will be able to describe the infections in Gastrointestinal and Central nervous system

CO4: Will be able to distinguish infections caused by vectors and animals

CO5: Will learn the methods of Antimicrobial susceptibility testing

SEMESTER: III	COURSE CODE: 21PMB34				COURSE TITLE: HUMAN INFECTIONS AND DIAGNOSIS				HOURS: 4	CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES (PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEAN SCORE OF COs	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	4	4	4	4	4	4	4	4	4.0	
CO2	3.5	3.5	3	4	4	3	2	4	3.4	
CO3	3.5	3.5	3	4	4	3	2	4	3.4	
CO4	4	4	4	4	4	3.5	2.5	3.5	3.7	
CO5	4	4	4	4	4	4	4	4	4.0	
Mean Overall Score									3.7	

Result: The score of this course is 3.7 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit - 1

(12 Hrs)

Background to the infectious diseases; Transmission; Specimen Processing; Non-cultural Techniques; Cultivation of Microorganisms; Identification of Microorganisms; Antibody detection methods; Assessment of host defense systems.

Unit - 2

(12 Hrs)

Clinical manifestations and diagnosis of infections by body system –Upper respiratory tract infections; Lower respiratory tract infections; Urinary tract infections; Sexually transmitted diseases.

Unit - 3

(12 Hrs)

Gastrointestinal tract infections; Obsteric and perinatal infections; Central nervous system infections; Infections of the eye; Infections of the skin, muscle, joints, bone and hemopoietic system.

Unit - 4**(12 Hrs)**

Vector borne infections (Rickettsial diseases, Malaria, Dengue as examples); Multisystem Zoonoses; Pyrexia of unknown origin – Infections in the compromised host - Hospital acquired infection.

Unit - 5**(12 Hrs)**

Anaerobic culture; Serological tests; Nucleic acid techniques in Diagnostic Microbiology; Antimicrobial susceptibility testing - General principles, Clinical definition of terms “resistant” and “susceptible” - the three-category system, The modified Kirby–Bauer method, Determination of MIC, Quality control.

Text Book

- Mims' Pathogenesis of Infectious Diseases. 4th Edition, 1995. Mims, C.A. Academic Press, London.

Reference Books

- Medical Microbiology. 21st Edition, 1998. Brooks, G.F., Janet S. Butel, Stephen A, Jawetz, Melnick & Adlerberg. Prentice Hall International Inc.
- Text Book of Microbiology. 6th Edition, 2000. Ananthanarayanan, R and C.K.J. Panicker. Orient Longman Private Ltd., Chennai.
- Medical Microbiology. 2nd Edition, 1993. Murray. P.R., G.S, Kobayashi, M.A. Pfaller and K. S. Rosenthal. Mosby St. Louis.
- Bailey & Scott's Diagnostic Microbiology. 12th Edition, 2007. Betty A. Forbes, Daniel F. Sahn and Alice S. Weissfeld. Elsevier/ Mosby.

YEAR - II	MICROBIAL BIOTECHNOLOGY (For those students admitted in the year 2021 – 22 and onwards)	21PMB41
SEMESTER - IV		HRS/WK - 4
CORE - 13		CREDITS - 4

Objective: To make the students familiar with applications of microbiology

Course Outcomes:

Upon successful completion of the course, the student:

CO1: Learns about Microbial enzyme technology and Biotransformation

CO2: Becomes familiar with the microbial products of industrial fermentations

CO3: Acquires knowledge about the use of microorganisms in the production of biopolymers

CO4: Gains knowledge about biotechnological applications available for environmental issues

CO5: Understands the possibilities of entrepreneurship in microbiology

SEMESTER: IV	COURSE CODE: 21PMB41				COURSE TITLE: MICROBIAL BIOTECHNOLOGY				HOURS: 4	CREDITS: 4
COURSE OUTCOMES	PROGRAMME OUTCOMES (PO)				PROGRAMME SPECIFIC OUTCOMES (PSO)				MEAN SCORE OF COs	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	3.5	3.5	4	3.5	4	3	4	3	3.56	
CO2	4	4	3.5	4	3	3.5	3.5	4	3.69	
CO3	3.5	3.5	4	3	4	3.5	4	3.5	3.63	
CO4	4	4	3.5	3	3.5	4	3	3	3.50	
CO5	4	3.5	4	3	4	3.5	4	3	3.63	
Mean Overall Score									3.60	

Result: The score of this course is 3.60 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit - 1

(12 Hrs)

Introduction and Basics: History and Scope of Microbial Biotechnology – Enzyme technology - production of microbial enzymes (amylase, pectinases, cellulase) - Enzyme immobilization, Products, Applications; Biotransformation.

Unit - 2

(12 Hrs)

Important industrial fermentations - Amino acid production (glutamic acid and lysine) - Production of antibiotics (penicillin, tetracycline) - Production of Vitamins (riboflavin, cyanocobalamin) - Production of alcohol (Ethanol) and beverages (beer and wine) - Organic acids - lactic acid, citric acid.

Unit - 3

(12 Hrs)

Biopolymers and Biomass: Microbial production of carbohydrates, Xanthan gum and polyester (PHAs, higher alkanes and methanol); Single cell proteins; Microbial whole-cell bioreporters; Biosensors - Types and Applications; Role of microorganisms in Nanotechnology.

Unit - 4**(12 Hrs)**

Environmental Biotechnology: Biotechnological methods for environmental monitoring – Recalcitrant xenobiotics - Biodegradation (hydrocarbons, pesticides, herbicides); Bioremediation – contaminated soils and water; marine oil pollutants; Microbes in mining, Ore leaching.

Unit - 5**(12 Hrs)**

Entrepreneurial Aspects: Qualities of an entrepreneur, Factors influencing entrepreneurship; Biogas production; Biofuels; Mushroom cultivation; *Spirulina* cultivation; *Azolla* cultivation; Microbial pigments; bacterial and algal carotenoids.

Text Book

- Elements of Biotechnology. 1996. Gupta, P.K. Rastogi and Company, Meerut.

Reference Books

- Concepts in Biotechnology. 1996. Balasubramanian, D., C.F.A. Bryce., K. Dharmalingam, J. Green and K. Jayaraman. Universities Press (India) Limited, Hyderabad.
- Molecular Biotechnology. Indian Edition, 2002. Glick, B.R. and J.J. Pasternack. Panima Publishing Corporation, New Delhi.
- Microbial Biotechnology. 1995. Alexander N. Glazer and Hiroshi Nikaido. W. H Freeman and Company.
- Biotechnology Expanding Horizons. 2021. Singh B.D. Kalyani Publishers, Ludhiana.
- Biotechnology. 2005. Satyanarayana U. Books and Allied (P) Ltd., Kolkata.

YEAR – II	LAB COURSE – III (For those students admitted in the year 2021 – 22 and onwards)	21PMP33
SEMESTER - III		HRS / WK - 8
PRACTICAL		CREDITS - 4

EXPERIMENTS IN AGRICULTURAL MICROBIOLOGY

1. Enumeration of bacteria from soil
2. Enumeration of fungi from soil
3. *Rhizobium* Isolation
4. Rhizosphere effect
5. Isolation and Enumeration of Phosphate utilizing bacteria

EXPERIMENTS IN MICROBIAL BIOTECHNOLOGY

1. Isolation of Actinomycetes
2. Isolation and enumeration of *Azospirillum* from soil
3. Isolation and enumeration of *Azotobacter* from soil
4. Carrier based inoculum preparation for biofertilizer
5. Immobilization of Amylase enzyme
6. Sterility test

EXPERIMENTS IN FOOD MICROBIOLOGY

1. MBRT
2. Resazurin Test
3. Isolation of *Vibrio* from marine food

EXPERIMENTS IN MOLECULAR BIOLOGY

1. Agarose gel electrophoresis
2. Isolation of Bacterial Genomic DNA
3. Isolation of Plasmid DNA
4. Preparation of acetate buffer
5. Lowry's method for protein estimation

PROGRAMME OUTCOMES (POs)

UNDER GRADUATE PROGRAMME OUTCOMES (POs)

PO1: The Students find their footings in life through wholesome and integral education.

PO2: The Students are encouraged to climb the academic ladder by pursuing Post Graduate Education in different domain.

PO3: The Students are academically and technically equipped to steer the Nation along the path of progress and peace.

PO4: The Students are trained to be Employable and Entrepreneurial Citizen of the Nation.

PO5: The Students are fortified intellectually, ethically and socially to face the challenges in life.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: *Disciplinary knowledge*

The students will develop their ability to understand the basic concepts of zoology viz., animal kingdom, systematic classification, anatomy, morphology, physiology, embryology, evolution, ecology etc.

PSO2: *Critical thinking*

The students will obtain knowledge to express their concepts effectively by understanding their subject with various disciplines.

PSO3: *Scientific reasoning*

The students will have ability to identify, classify and describe various organisms from different phylum by understanding their structure and function of various organ system and relationship with their environment

PSO4: *Research-related skills*

The students will develop ability to explain structure and functions of a cell and organ (from molecular level to the organ system level) as well as the process of development of an embryo

PSO5: *Problem solving*

The students will acquire knowledge in cell biology, molecular biology, genetics, biotechnology, microbiology, biochemistry, biostatistics, developmental biology, immunology, animal physiology, environmental biology, evolution etc., which helps to

develop their ability to analyse and solve various biological problems.

PSO6: *Cooperation/Team work*

The students will be able to work effectively and respectfully with diverse teams during vermiculture and mushroom culture practices.

PSO7: *Information/digital literacy*

The students will be able to use various biological softwares to analyze the data by obtaining knowledge in biostatistics, computational biology and biotechnology.

PSO8: *Self-directed learning*

The students will be able to work independently to enhance their expertise through various activities like seminars, assignments, etc., and they can manage a project like vermiculture, mushroom culture, aquaculture etc., on completion of the course.

PSO9: *Moral and ethical awareness/reasoning*

The students will have the knowledge to minimize the environmental issues like global warming, pollution, degradation of natural resources, and help in conserving endangered species, afforestation etc.

PSO10: *Lifelong learning*

The students will be able to apply their knowledge of biological sciences in various disciplines like vermiculture, mushroom culture, aquaculture, apiculture, agriculture and medicine. And contribute the knowledge for national development.

COURSE OUTCOME

II B.Sc Zoology	ALLIED BOTANY	ABZ101A
SEMESTER – I		HRS/WK – 5
ALLIED BOTANY		CREDIT – 4

Objective:

To teach of basic idea of plant science through traditional disciplines such as plant taxonomy, anatomy, morphology, physiology, embryology, genetics, evolution and ecology.

Course Outcomes (CO's):

On completion of the course students will be able

CO1: To understand the taxonomy of plants

CO2: To describe the structure and components of prokaryotic and eukaryotic plant cells.

CO3: To understand plant physiology and embryology

CO4: To describe the structure and life history of the plant species included in the syllabus

CO5: To acquire knowledge on plant genetics, evolution and ecology

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: ABZ101A					COURSE TITLE: ALLIED BOTANY										HOUR S: 5	CRED ITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)										MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10		
CO1	5	5	5	5	4	5	4	4	2	3	5	1	5	1	5	4.0	
CO2	5	5	5	5	4	5	4	3	4	4	5	1	5	1	5	4.1	
CO3	5	5	4	5	4	5	4	3	3	4	5	1	5	2	5	4.0	
CO4	5	5	4	5	4	5	4	3	3	3	5	1	5	3	5	4.0	
CO5	5	5	4	5	4	5	4	3	2	4	5	2	5	3	5	4.1	
Mean Overall Score																4.0	

Result: The Score of this Course is 4.0 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT –I: TAXONOMY, BACTERIA AND VIRUS**15 Hours**

General outline of Bentham and Hooker's system of classification. Study of the characters and the economic important of the following families Cucurbitaceae, Apocynaceae, Euphorbiaceae and Liliaceae. Bacteria-general characters-shape-flagellation-structure of E.coli –reproduction and economic importance.Structure of TMV and Bacteriophage.

UNIT –II: CELL BIOLOGY AND ANATOMY**15 Hours**

Prokaryotic and eukaryotic cell- ultrastructure of plant cells-cell organelles –Chloroplast, Mitochondria and Nucleus, Cell divisions- Mitosis and Meiosis. Tissues- meristematic and permanent tissues, primary and normal secondary thickening of the dicot stem.

UNIT –III: PLANT PHYSIOLOGY AND EMBRYOLOGY**15 Hours**

Photosynthesis –light reaction- calvin cycle, respiration- glycolysis and kreb's cycle-electron transport system- Growth hormones-Auxin, Gibberillin and Cytokinin-tissue culture – principles. Structure of mature anther-structure of mature ovule-and its types and fertilization.

UNIT – IV: STRUCTURE AND LIFE HISTORY**15 Hours**

Algae-Chlorella; Fungi- Penicillium, Agaricus; Bryophytes- Funaria; Pteridophytes- Lycopodium (excluding developmental studies) and Gymnosperms-Cycas. Economic importance of chlorella, penicillium and Agaricus.

UNIT- V: GENETICS, EVOLUTION AND ECOLOGY**15 Hours**

Mendelism-monohybrid and dihybrid crosses and their corresponding back and test crosses; Theories of evolution-Lamarckism and Darwinism; Ecosystem- fresh water ecosystem, environmental pollution-types and control measures.

Text Books

1. Ashok Bendre, A.K. and Pandey P.C. (1975) Introductory Botany. Rastogi Publication Meerut.
2. Ganguly, A.K. and Kumar. N.C. (1971) General Botany Vol. I & Vol. II, Emkay Publication, Delhi.

Reference Books

1. Rev. Fr. Ignacimuthu, S.J. (1975) Basic Biotechnology – Tata Mcraw till publication co., New Delhi.
2. Rao,K.N.Krishnamoorthy,K.V. and Rao. G.(1975) Ancillary Botany. S. ViswanathanPrivate.Ltd.,Chennai

II B.A. History	NON MAJOR ELECTIVE ORNAMENTAL FISH CULTURE	CODE: NZOFC401
SEMESTER – IV		HRS/WK – 3
NME (Optional)		CREDIT – 2

Objectives:

To impart training on Ornamental fish culture technology.

To create knowledge on self employment opportunity.

Course Outcome

On completion of the course students will be able

CO1: To understand the scope of ornamental fish culture.

CO2: To describe Common characters and sexual dimorphism of Ornamental fishes.

CO3: To know the food and feeding of ornamental fishes.

CO4: To describe handling and packing of live fish transport.

CO5: To acquire knowledge on maintenance of aquarium.

SEMESTER IV	COURSE CODE: NZOFC401					NON MAJOR ELECTIVE ORNAMENTAL FISH CULTURE										HOURS: 3	CRE DITS :2
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)										MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10		
CO1	5	5	5	5	4	4	5	1	1	2	4	1	5	4	5	3.7	
CO2	5	5	5	5	4	4	5	1	1	2	4	1	5	4	5	3.7	
CO3	5	5	5	5	4	4	5	4	1	2	4	2	5	4	5	4.0	
CO4	5	5	5	5	4	4	5	3	1	2	4	2	5	4	5	4.0	
CO5	5	5	5	5	4	4	5	1	1	2	4	1	5	4	5	3.7	
Mean Overall Score																3.8	

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

UNIT – I **9 Hours**
The potential scope of Ornamental fish culture as a Cottage Industry. Exotic and Endemic species of Aquarium Fishes.

UNIT – II **9 Hours**
Common characters and sexual dimorphism of Fresh water and Marine Ornamental fishes such as Guppy, Molly, Sword tail, Gold fish, Angel Fish, Blue Morph, Anemone fish and Butterfly fish.

UNIT – III **9 Hours**
Food and feeding of Ornamental fishes – use of live fish feed organisms. Preparation and composition of formulated fish feeds.

UNIT – IV **9 Hours**
Live fish transport – Fish handling, packing and forwarding techniques.

UNIT – V **9 Hours**
General Aquarium maintenance – budget for setting up an aquarium fish farm as a cottage industry.

Text Books:

1. Shanmugam K. 1992, Fishery Biology and Aqua Culture – Leo Pathipagam – Chennai- India.
2. Arumugam N. Aquaculture, Saras Publication

Reference Books:

1. Mill Dick, 1993: Aquarium fish, DK Publ.Co,Inc. New York –USA
2. Hall, C.B. 2005: Ponds and Fish culture – Agrobios – Jodhpur – India.
3. Day,F. 1978: Fishes of India Vol. I & II, William Danisan & Sons, India.
4. Jingran V.G., 1991: Fish and fisheries in India – Hindustan Publ. co New Delhi – India.
5. Yadav. 1995: Fish and fisheries, Daya publ. co., New Delhi – India

III B.C.A	BIG DATA	GCA52C
SEMESTER - V		HRS/WK-5
GE-I (1)		CREDIT-4

UNIT- I **[15 Hrs]**

Big Data in the Enterprise: Search at Scale – Multimedia Content - Sentiment Analysis – Enriching and Contextualizing Data – Data Discovery and Exploratory Analytics – Operational Analytics or Exploratory Analytics – Realizing opportunities from Bid Data – Taming the “Big Data” – New Information Management Paradigm: New Approach to enterprise Information management for Big Data – Implications of Big Data to Enterprise IT
– Big Data Implications for Industry: Big Data uses cases by Industry Vertical.

UNIT-II **[15 Hrs]**

Scale-Out architecture – Database Workloads – Database Technologies for managing the workloads – Columnar Database - Polyglot persistence: The next generation architecture - Big Data warehouse and analytics – How Hadoop Works – Additional consideration for BDW – Data Quality implications for Big Data.

UNIT- III **[15 Hrs]**

Understanding Data Integration Patterns – Big Data Workload Design Approaches – Map reduce patterns, algorithms and use cases, NoSQL Modeling Techniques.

UNIT - IV **[15 Hrs]**

Challenges in Big Data Analysis – Big Data Analytics Methodology – Analyze and Evaluate Business Use case – Develop Business Hypotheses – Setting up Big Data Analytics System – Gathering Data with Apache Flume.

UNIT -V **[15 Hrs]**

In-Memory Computing Technology: Guidelines – Real Time Analytics and CAP Theorem – Hadoop and NoSQL Conundrum – Using an In-Memory Data Grid for Real time Data Analysis – Map Reduce and real Time Processing – Big Data Workflow – Design Principles for Contextualizing Big Data.

TEXT BOOK:

1. SoumendraMohanty, MadhuJagadeesh, and HarshaSrivatsa, “Big Data Imperatives: Enterprise Big Data Warehouse, BI Implementations and Analytics”, Apress Publication.

REFERENCE BOOKS:

1. Bid Data Now 2012 Edition”, O’Reilly, First Edition, 2012
2. Paul Zikopoulos, ThomasDeutsch, Dirk Deroos, David Corrigan, Krishnan Parasuraman and James Giles, “Harness the power of Big Data”, McGrawHill, 2013

III B.C.A	FUNDAMENTALS OF DATA SCIENCE	GCA52D
SEMESTER V		HRS/WK – 5
GE – I (2)		CREDIT - 4

UNIT –I: [15 Hrs]

Introduction: Data mining – Kinds of Data Mined – Kind of Patterns Can be Mined – Technologies of Data mining– kind of Targeted Applications– Major Issues in Data Mining.

UNIT –II: [15 Hrs]

Data Pre-Processing: Overview –Data Cleaning - Data Integration– Data Reduction: Overview of Data Reduction Strategies - Histograms – Clustering – Sampling- Data Cube Aggregation – Data Transformation and Data Discretization: Data Transformation Strategies overview - CLASSIFICATION: Basic Concepts Clustering: Cluster Analysis-K-Means: A Centroid- Based Techniques.

UNIT –III: [15 Hrs]

Digital Data : Types of Digital Data: Introduction to Big Data - Big Data Analytics- Big Data Technologies Landscape: NoSQL.

UNIT- IV: [15 Hrs]

Hadoop: Hadoop: Features of Hadoop – Key Advantages of Hadoop – Versions of Hadoop – Overview of Hadoop Ecosystems – Hadoop Distribution – Hadoop versus SQL – Integrated Hadoop Systems offered by Leading Market Vendors- Cloud based Hadoop Solution. Introducing Hadoop: Why Hadoop –Why not RDBMS – RDBMS versus Hadoop – Distributed Computing Challenges – History of Hadoop – Hadoop Overview – Use Case of Hadoop- Hadoop Distributors – HDFS.

UNIT – V: [15 Hrs]

MapReduce: Introduction to MapReduce Programming: Introduction to HIVE - Hive- Hive Architecture – Hive Data Types- Hive File Format – Hive Query Language. Introduction to Pig: Pig – Anatomy of Pig – Pig on Hadoop –Pig Philosophy – ETL Processing – Pig Latin Overview

TEXT BOOK:

1. Jiawei Han and MichelineKamber, Data Mining Concepts and Techniques, MorganKaufmann Publishers, California, USA, 2016.
2. Seema Acharya and SubhashiniChellappan, Big Data Analytics, Wiley India Pvt Ltd,2018.

REFERENCE BOOKS:

1. Mohammed J. Zaki, Wagner Meira, Jr, Data Mining and Machine Learning: Fundamental Concepts and Algorithms, Cambridge University Press, United Kingdom, 2020.
2. John D. Kelleher and Brendan Tierney, Data Science, The MIT Press Essential Knowledge Series, 2018.
3. Benjamin Bengfort, Jenny Kim, Data Analytics with Hadoop, O'Reilly Media, California USA, 2016.

III B.C.A	DATA MINING	GCA52E
SEMESTER V		HRS/WK-5
GE – I (3)		CREDIT-4

UNIT-I: [15 Hrs]

Introduction: Definition, DBMS Vs Data Mining, Issues and Challenges in DM, DM Application Areas, Basic Data Mining Task, data mining metrics, social implications of data mining, Data Mining Vs Knowledge Discovery in Databases(KDD).

Related concepts: OLTP system, IR system, Decision Support Systems, dimensional modeling, data ware housing, OLAP, web search engines

UNIT-II: [15 Hrs]

Statistical perspectives on Data Mining: Point estimation, model based on summarization, Bayes Theorem, Hypothesis testing, Regression and Correlation. Non parametric techniques- Decision Trees, Neural Networks, Genetic Algorithms

UNIT- III: [15 Hrs]

Classification: Introduction, Issues in classification, Bayesian classification, distance based algorithms: KNN, Decision Tree, KNN Supervised Learning.

UNIT-IV: [15 Hrs]

Clustering: Introduction, Outliers, Hierarchical Algorithms, Partitioned Algorithms, Neural Network based algorithms, BRICH algorithm.

UNIT-V: [15 Hrs]

Association: Introduction-Method to discover Association Rule, basic algorithms, large item sets, Data Parallelism- Advanced Association Rules Techniques.

TEXT BOOKS:

1. Jiawei Han, Micheline Kamber, "Data Mining: concepts and techniques", Morgan Kaufmann Publisher, second edition.
2. G.K. Gupta, "Introduction to Data Mining with case studies", PHI, second edition.

REFERENCE BOOKS:

1. Data Mining Techniques: Arun K. Pujari,
2. Data Mining: Introductory and Advanced Topics: M.H. Dunham Pearson Education.
3. Data Mining: Concepts & Techniques, Morgan Kaufman. 2006.

YEAR – II	DATA ANALYTICS USING PYTHON	PIT31
SEMESTER - III		HRS/WK – 4
MAIN - 7		CREDIT - 4

Objective:

To write programs for a wide variety problems in maths, science, finance and games.

Course Outcomes (CO's):

At the end of the Course the students should possess

At the end of the Course the students should possess

CO1: Learn Primitive data types, selection statements, loops, functions to write programs..

CO2: To learn handling of files and handling errors in files,

CO3: Understanding the Numpy module.

CO4: Understanding the data manipulation using Pandas.

CO5: Understanding the use of OpenCV for image manipulation.

SEMESTER III	COURSE CODE:					COURSE TITLE :DataAnalyticsUsingPython					HOURS:4	CREDITS:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)					MEAN SCORE OF CO'S	
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	5	5	5	5	5	5	5	5	5	5	5	
CO2	4	4	4	4	4	5	5	5	5	5	4.5	
CO3	4	4	4	4	4	5	5	5	5	5	4.5	
CO4	4	4	4	4	4	5	5	5	5	5	4.5	
CO5	5	5	5	5	5	5	5	5	5	5	5	
Mean Overall Score											4.7	

Result: The score of this course is 4.7 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

Unit I **[15 hrs]**

Python Basics: Introduction to Python-Features-Identifiers-Keywods-Indentation-Comments-Built-in data types. Control Structure: for-nested for-while. User defined functions-function arguments and its types. **Data Structures: List**-List methods: append, clear, copy, count, extend, index, pop, remove, reverse, sort **Tuples**- Tuple methods: count, index. **Dictionary** -Dictionary methods:clear,copy,get,fromkeys,items,keys,pop,popitem,setdefault,update values. **Set**-Set methods: add, copy, clear, difference, union, intersection, symmetric difference, isdisjoint, issubset, issuperset.

Unit II **[15 hrs]**

Python File Handling – File manipulations: read, readline, readlines, truncate, seek, flush, write, writable, writelines, tell.

Python Exception Handling-Exception methods: Exception, ArithmeticError, EOFError, ImportError, IndentationError, keyError, OverflowError, ZeroDivisionError.

Unit III **[15 hrs]**

Introduction to Numpy: Numpy Basics- Arrays and Vector Computation-Numpy ndarrays-Creating ndarrays-Numpy Data types : strings, integer, float, Boolean, complex-Arithmetic with Numpy arrays: Array indexing and Slicing functions: slice, arrange-Numpy ufunc: add, subtract, multiply, division, power, mod, divmod, abs.

Unit IV **[15 hrs]**

Data Manipulation with Pandas:- Introduction to Pandas Data Structure: DataFrame-Loading your first data set-Looking at columns, rows and cells: Subsetting columns-subsetting columns by name, range-subsetting rows-subsetting rows by index label(head, tail, loc)-Group and aggregated calculations:-grouped mean.

Unit V **[15 hrs]**

Introduction to OpenCV:-Loading-Displaying-saving image:-imread, imshow, imwrite-Drawing:Lines, rectangle, circle-Image Transformation:-rotation, flip, splitting and merging channels-color space:- convert between rgb, hsv, grayscale images.

TEXTBOOK:

1. Tony Gaddis, "Starting out with Python", Pearson India Educational Services Pvt. Ltd., 4th Edition.
2. Paul Deitel, Harvey Deitel, "Python for Programmers", Pearson India Educational Services Pvt. Ltd., 5th Edition Wes McKinney, "Python for Data Analysis: Data Wrangling with Pandas, Numpy and IPython", O'Reilly, 2nd Edition, 2018.

REFERENCEBOOKS:

1. Ljubomir Perkovic, "Introduction to Computing Using Python: An Application Development Focus", John Wiley & Sons, 2012.
2. Dawson, Michael. Python Programming for the Absolute Beginner (3rd ed.). Boston, MA: Course Technology, 2010.

YEAR – II	DATA ANALYTICS USING PYTHON AND WEB DEVELOPMENT USING PHP	PITP33A
SEMESTER - III		HRS/WK – 5
PRACTICAL - III		CREDIT - 5

Objective:

- To enable the students to learn the programming concepts in Data Analytics using Python.
- To enable the students to build applications in PHP.

Course Outcomes (CO's):

At the end of the Course the students should be able to

CO1: Understand and summarize different File handling operations in Python.

CO2: Design and develop Client Server network applications using Python.

CO3: Develop Application using Forms in PHP.

CO4: Develop different application such as online shopping cart, banking App.

CO5: Develop Database application using Android and PHP

SEMESTER III	COURSE CODE:					COURSE TITLE :DATA ANALYTICS USING PYTHON AND WEB DEVELOPMENT USING PHP (Practical)					HOURS:5	CREDITS: 5
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)					MEAN SCORE OF CO'S	
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	5	5	5	5	5	5	5	5	5	5	5	
CO2	4	4	4	4	4	5	5	5	5	5	4.5	
CO3	4	4	4	4	4	5	5	5	5	5	4.5	
CO4	4	4	4	4	4	5	5	5	5	5	4.5	
CO5	4	4	4	4	4	5	5	5	5	5	4.5	
Mean Overall Score											4.6	

Result: The score of this course is 4.6(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Lab Exercises:

DATA ANALYTICS USING PHYTON:

[40 Hrs]

1. Write a Python program to sum all the items in a list.
2. Write a Python program to get the largest number from a list.
3. Write a Python program to remove duplicates from a list.
4. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included)
5. Write a Python program to split a list into different variables.
6. Write a Python program to generate n prime numbers using function.
7. Write a Python program to print a nested lists (each list on a new line) using the print() function.
8. Write a Python program to create a list with infinite elements.
9. Write a Python program to access dictionary keys element by index.
10. Write a Python program to remove duplicates from a list of lists.

WEB DEVELOPMENT USING PHP:

[35 Hrs]

1. String and Date functions in PHP.
2. Form creation using POST method
3. Database Operations using mysql.
4. Login form using session.
5. Class and Object in PHP.
6. Student mark list creation with validation.
7. Electricity bill preparation.
8. Develop a simple online shopping cart.
9. Develop a simple bank application.
10. Develop an application for employee pay slip.

YEAR – II	DATA ANALYTICS USING PYTHON OR WEB DEVELOPMENT USING PHP OR ANDROID APPLICATIONS	18JPIT33
SEMESTER - III		HRS/WK – 5
PROJECT - III		CREDIT - 5

Objective:

To motivate the students to work in emerging / latest technologies, help the students to develop ability, to apply theoretical and practical tools / techniques to solve real life problems related to industry, academic institutions and research laboratories.

Course Outcomes (CO's):

At the end of the Course the students should be able to develop

CO1: Stand-alone applications using Android and PHP.

CO2: System Program using Android

CO3: Web Services using PHP.

CO4: A Web Site using PHP and MySql.

CO5: A Novel Application.

SEMESTER III	COURSE CODE:					COURSE TITLE:DATA ANALYTICS USING PYTHON OR WEB DEVELOPMENT USING PHPOR ANDROID APPLICATIONS (Project)					HOURS:5	CREDITS:5
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)					PROGRAMME SPECIFIC OUTCOMES(PSO)					MEAN SCORE OF CO'S	
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	5	5	5	5	5	5	5	5	5	5	5	
CO2	5	5	5	5	5	5	5	5	5	5	5	
CO3	4	4	4	4	5	5	5	5	5	4	4.5	
CO4	4	4	4	4	5	5	5	5	5	4	4.5	
CO5	4	4	4	4	5	5	5	5	5	4	4.5	
Mean Overall Score											4.7	

Result: The score of this course is 4.7(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcomes and Programme Specific Outcomes.

About the Project:

- The project is of 5 hours/cycle for each semester duration and a student is expected to do planning, analysing, designing, coding, and implementing the project.
- The initiation of project should be with the project proposal.
- The synopsis approval will be given by the project guides.

Problem:

- Develop a project by choosing any topic in Android Applications or Web Development using PHP.

The project proposal should include the following:

- Title
- Objectives
- Input and output
- Details of modules and process logic
- Limitations of the project
- Tools/platforms, Languages to be used
- Scope of future application

The project work should be an individual project and a project report should be submitted at the end of the semester. The students shall defend their project in front of experts during practical examinations.

II BBM	TECHNOLOGY IN BANKING	CODE- ABM401A
SEMESTER - IV		HRS/WK - 5
ALLIED -V		CREDIT - 4

UNIT-I

(15 Hrs)

Introduction : Evolution of Banks - Technological Impact in Banking Operations – Different approaches to Banking computerization, WAN, LAN, VSAT, Networking system –Single Window concept – Core Banking – Concept, Opportunities, Challenges & Implementation

UNIT-II(15 Hrs)

Back Office Operation: Bank back office management – Inter branch reconciliation – Data center Management – Knowledge Management (MIS/DSS/EIS) – Treasury Management – Foreign Exchange Management

UNIT-III

(15Hrs)

E-Payment:Meaning of E-Payment –Benefits of E-Payment- Components of Electronic System- Popular electronic payment methods-Electronic fund transfer – Electronic clearing system – Debit and Credit Card system on the internet- Components of online credit processing-Fintec Companies.

UNIT-IV

(15Hrs)

Contemporary Issues in Banking Techniques:Confidentialityandsecrecyofdata- Cyber crimes and Cyber laws and its implications

UNIT –V

(15Hrs)

E-Payment Security: Meaning of E- Security - Security requirement in E-payment systems - Details of Security threats – Secured payments - E-Payment Security - E-Security Protection - Key Security schemes - AI and machine learning - Smart payments.

Text Books: 1.Technology and banks – national institute of banking, pune.

2Electronic banking and information technology –IIB

Reference Books: Information technology in Indian commercial banks –NIB-Pune-India

II YEAR	MODERN BANKING PRACTICES (from 2019 batch onwards)	CODE:3NBMMB
SEMESTER 111		HRS/WEEK – 3
Non Major Electives		CREDIT – 2

OBJECTIVE:

To make the students understand the modern practices in banking sector.

Unit – I Introduction to Modern Banking System (9 Hrs)

Bank: Definition – Evolution of Modern Banks – Types of Banks – Public Sector, Regional Banks, Private Sector Banks – Universal Banking – Unit Banking.

Unit – II Modern Commercial Banking (9 Hrs)

Modern Commercial Banking: Meaning – Definition – Functions – Characteristics – Role of Commercial Banks in socio economic development.

Unit – III Banker Customer Relationship (9 Hrs)

Banker and Customer – Definition – Types of bankers – Types of customers – Accounts of Individuals: Minor, Illiterate person, Joint Account.

Unit – IV Bank Operations (9 Hrs)

Opening of a Bank Account – Know Your Customer Guidelines – Negotiable Instruments Act 1881: Definition – Characteristics – Types – Cheques – Crossing of Cheques – Honour and dishonour of Cheques

Unit – V Modern Banking Technology (9Hrs)

ATMs – Internet banking – Mobile banking – Debit, Credit, and Smart Cards – Electronic Payment Systems (EPS) – Magnetic Ink Character Recognition (MICR) – Electronic Clearing System (ECS) – Electronic Fund Transfer (EFT) – National Electronic Fund Transfer (NEFT) – Real Time Gross Settlement (RTGS) – Immediate Payment Service (IMPS).

TEXT BOOKS

1. M. L. Tannan, (2009), Banking Law and Practice in India – India Book House, New Delhi.
2. Gurusamy. S, (2009), Banking Theory Law and Practice, Tata McGraw Hill, New Delhi.

REFERENCE BOOKS 1.Sundaram, K. P. M. &Varshney (2003), Banking Theory Law & Practice, Sultan Chand & Sons, New Delhi.

III BBM	PRINCIPLES OF AUDITING	CODE -GBM506B
SEM V		HRS/WEEK – 6
DISCIPLINE SPECIFIC ELECTIVE-II(A)		CREDIT - 5

UNIT - I (15 Hrs)

Introduction To Auditing: Auditing - Meaning – Definition – Objectives – Scope – Advantages, Limitations - Distinction between Accounting and auditing – Difference between Auditing and Investigation, materiality in auditing, evidence – audit techniques, classification as to methods of approach to work – types and conduct of audit.

UNIT - II (20 Hrs)

Audit planning: audit engagement letter - factors considered before commencing a new audit, audit programme, audit files, audit note book, working papers – vouching of cash and trading transaction – internal check – internal control – internal audit.

UNIT – III (15 Hrs)

Verification And Valuation: Verification and valuation of assets and liabilities – meaning – objectives of verification and vouching – classifications of asset – importance of valuation – difference between verifications and valuation – verification and valuation of liabilities.

UNIT – IV (20 Hrs)

Company Audit: Audit of limited companies – necessity of company Audit - Qualification and disqualifications of auditors – appointment of auditors, ceiling on numbers of audits, remuneration of auditors, removal of auditors- 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.

UNIT - V (20 Hrs)

Electronic Data Processing: Investigation – scope – objectives, procedures followed in investigation – investigation under the company act – powers of inspectors .Electronic Data Processing systems – Characteristics – comparison of manual and Electronic Data Processing systems – features of auditing through computer system – computer based accounting – features of CAAT – uses of CAAT.

Text Books:

1. N. Premavathi – “Practical Auditing”, Sri Vishnu Publications.
2. B. Tandon – “Practical Auditing”, S. Chand

Reference Books:

1. S. Vengadamani – “Practical Auditing”, Margam publication
2. V. H. Krishanadwala & N. H. Krishanadwala – Sultan Chand Sons

III -BBM	BUSINESS ENVIRONMENT	EBM606
SEMESTER –VI		HRS/WK -6
Discipline Specific Elective-IV (C)		CREDIT -4

UNIT –I

(15 Hours)

Introduction Of Business Environment :Significance and Scope of Business – Characteristics of Business- Objectives and Uses of Study of Business Environment- Types of Business environment.–Environmental Factors – Environmental Scanning –Process of Environmental Scanning -

UNIT- II

(20 Hours)

Economic Environment : Strategic and Economic Planning in India – Economic reforms in India-Economic Parameters - Economic Policies - Liberalisation, Privatisation and Globalisation of Indian Economy – Foreign Trade Policy and their impact on Indian business..

UNIT –III

(20 Hours)

Socio Cultural Environment In India: Features of Indian culture, values and their implications for Indian Business - Social Responsibilities of Business- Business Ethics & Corporate Governance –impact of mass media on Indian Industry – introduction to Consumer laws – Consumer Protection Act 2019- cost and business behavior

UNIT- IV

(15 Hours)

Natural Environment: Meaning and Components of Natural Environment-Impact of Natural Environment on Business - Guidelines for Development of Natural Resources - Sustainable Development – its impact on business-Green Index

UNIT –V

(20 Hours)

Technological Environment: Meaning, Factors Governed and Impact of Technology in business- MNC as a Source of transfer of technology and its implications – Impact of Technology on Globalization- Opportunities and threats in WTO and the new international trading regime.

Text Books:

1. Dhanabhakiyam. M&Kavitha.M., BusinessEnvironment, VijayNicole Imprints Private Ltd., Chennai., 2014.
2. Sankaran, BusinessEnvironment, Margham Publications. Chennai

Reference Books:

1. Gupta C.B., Essentials of Business Environment, Sultan & Chand Publications,FirstEdition,2018

YEAR - II	PRINCIPLES OF MARKETING	CODE – ABB304A
SEMESTER – III		HOURS / WEEK –5
ALLIED - 4		CREDIT - 4

Objective

To enable the students to understand the basic concepts in marketing and principles

UNIT- I (15 Hrs)

Marketing: Meaning, Definition and importance of marketing- Approaches of marketing -Functions- Marketing environment – Internal and External factors- Marketing mix – 7 elements of marketing mix- Market segmentation- Definition - bases for market segmentation

UNIT - II (14 Hrs)

Consumer and industrial goods:Meaning and definition - Consumer and industrial goods – New product development – Meaning- Steps in New Product Development- Product life cycle – Reasons for product failure.

UNIT -III (14Hrs)

Pricing: Price – Definition – Objectives of pricing – Factors affecting pricing decision- Pricing policies – Procedure for price determination – Methods of pricing.

UNIT - IV (16 Hrs)

Channels of Distribution: Definition and importance - types of channels; factors affecting choice of a particular channel –Kinds of middlemen – Agent and Merchant Middlemen – Wholesalers –Types-Services rendered by wholesalers: Retailers – Requisites –Types- Services rendered by retailers.

Unit V (16 Hrs)

Sales promotion: Meaning - Purpose–Types-Advantages and limitations of sales promotion Advertising - Meaning –Definition- Medias and its relative merits and demerits. Social Media Advertising - Web Advertising, and Mobile Advertising.

Text Books:

1. R.S.N.Pillai&Bagavathi, , Modern Marketing – principles and practices, S.Chand&sons, New Delhi.4th Edition 2009
2. Marketing Management - V. S Ramaswamy& S. Namakumari- Mcmillan India

Limited ,New Delhi- 3rd Edition- 2002

Reference Books:

1. Dr.C.B. Gupta and Dr. N. Rajan Nair. Marketing Management, S. Chand & sons, New Delhi.7th Edition,2005
2. S.A.Sherlakar, , Marketing Management, Himalaya Publishing House, New Delhi.12th Edition
3. PhilipKotler and Gary Armstrong, 11th Edition, Principles of Marketing, Pearson Prentice Hall of India Ltd, New delhi.12th Edition - 2005

YEAR - I	ENTREPRENEURIAL DEVELOPMENT	CODE – BB203A
SEMESTER – II		HOURS / WEEK – 6
CORE THEORY -3		CREDIT - 5

Objectives:

To develop and strengthen entrepreneurial quality and motivation in students.
 To impart basic entrepreneurial skills and understandings to run a small business efficiently.

Course Outcomes (CO's): After completing this course, the student will be able to:

- CO1: Understand the basic concepts and theories of entrepreneurship.
- CO2: Exemplify knowledge on course contents, curriculum and constraints of EDP.
- CO3: Conceive business ideas and convert them into business projects.
- CO4: Become familiar with institutions support various forms of assistances and subsidies.
- CO5: Learn the MSMEs schemes provided to budding entrepreneurs.

Semester	Course Code		Course Title											Hours	Credit
II	BB203A		Entrepreneurial Development											6	5
Course Outcomes (COS)	Programme Outcomes (PO's)					Programme Specific Outcomes (PSO's)								Mean Score Of CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PS O2	PS O3	PSO 4	PS O5	PS O6	PS O7	PS O8		
CO1	5	4	5	4	5	4	5	4	5	4	5	4	3	4.38	
CO2	4	4	4	5	4	5	4	3	3	2	4	5	5	4.08	
CO3	5	5	3	4	5	5	3	5	2	5	4	5	3	4.15	
CO4	3	4	3	4	5	4	4	3	4	4	5	5	5	4.08	
CO5	3	3	4	5	5	4	4	5	5	4	5	4	5	4.31	
											Mean Overall Scores			4.20	

Result: The Score of this Course is 4.20 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit -I Introduction to Entrepreneurship (20 Hrs.)

Entrepreneurship: Meaning- Nature-Importance-Theories- Entrepreneur: Meaning-Definition- Characteristics-Qualities- Classification of Entrepreneurs - Roles of an Entrepreneur-Entrepreneur vs Intrapreneur - Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Factors Promoting an Entrepreneur - Factors affecting Entrepreneurial Growth in India - Role of entrepreneurs in India's Economic Development

Unit -II Entrepreneurship Development Programmes (15 Hrs.)

EDP- Meaning-Needs-Objectives –Course Contents and Curriculum-Phases of EDP-Problems and Constraints of EDP- Organizations providing Entrepreneurship Development Programmes– Entrepreneurial Ecosystem.

Unit -III New Venture (20 Hrs.)

Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques-Sources of Product for Business - Prefeasibility Study - Criteria for Selection of Product - Procedures to Start a New Venture- Start-up – Need for Start-up- Business Plan for Starts up – Contents and Evaluation Criteria – Unicorn - Decacorn.

Unit –IV Resource Mobilization Institutional Support and Subsidies (20 Hrs.)

Resource Mobilization- Financial resources-Human resources-Material-Physical resources - Sources of Raising Funds for an Entrepreneur (traditional and modern sources)- Angel Investors- Venture Capital - Various Institutions supporting Entrepreneurial growth - Incentives and Subsidies: Meaning-Needs- Incentives and Subsidies available to Entrepreneurs– DIC- Industrial Estates – Business Incubators.

Unit - V Managing MSME (15Hrs.)

Introduction- Classification of Enterprises- Memorandum of MSMEs-Registration of MSMEs- MUDRA Scheme, Prime Minister's Employment Generation Programme (PMEGP), STAND-UP INDIA and START-UP INDIA, Sickness in small Business - Preventing Sickness and Rehabilitation of Business Units.

Text Books

1. Dr.S.S Khanka, Entrepreneurial Development, Sultan Chand company Ltd.
2. AbhaJaiswal Micro, Small & Medium Enterprises Development Act, (Law, Policies & Incentives), Bharat Law House Pvt. Ltd

Reference Books

1. Vasant Desai, Small-Scale Industries and Entrepreneurship, Himalaya Publishing House, 2017
2. Prasanna Chandra- Project Preparation, Appraisal, Implementation, Tata Mc-Graw Hill, New Delhi.
3. G.N.Pande- A Complete Guide To Successful Entrepreneurship- Vikas Publishing House, New Delhi

YEAR - II	DIGITAL AND SOCIAL MEDIA MARKETING	CODE – BB401A
SEMESTER – IV		HOURS / WEEK –6
CORE THEORY -7		CREDIT – 5

Objective: To have a thorough understanding of the digital and social media marketing concepts.

Course outcomes (CO's): After the completion of the course the students will be able

CO1: To understand about digital marketing.

CO2: To cognize and able to understand trends in digital marketing.

CO3: To have an overview of web marketing.

CO4: To demonstrate various search engines.

CO5: To synthesize information and derive insights into social media marketing.

Semester	Course Code		Course Title											Hours	Credit
IV	BB401A		Digital and Social Media Marketing											6	5
Course Outcomes (COS)	Programme Outcomes (PO's)					Programme Specific Outcomes (PSO's)								Mean Score Of CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8		
CO1	5	4	5	4	5	4	5	4	5	4	5	4	3	4.38	
CO2	3	5	4	5	4	3	4	4	5	3	4	5	6	4.23	
CO3	4	4	5	5	4	5	5	5	4	4	4	4	3	4.31	
CO4	5	5	5	5	5	3	4	5	5	3	3	3	2	4.08	
CO5	4	3	4	5	5	4	4	5	5	4	5	4	5	4.38	
Mean Overall Scores													4.28		

Result: The Score of this Course is 4.28 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERYHIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit – 1 Introduction to Digital Marketing (15 Hours)

Digital Marketing- Definition, Importance, Benefits, Challenges - Digital Vs Traditional Marketing, Digital Marketing – Organic & Paid, Paid Owned Earned Media (P.O.E.M), Digital Marketing platforms.

Unit – 2 Digital Marketing Trends (15 Hours)

Content Marketing - Engagement Marketing - Affiliate marketing- Difference between referral and affiliate marketing, Types of Affiliates - Email Marketing- Importance, type of emails, Vlogging and microvlogging.

Unit – 3 Web Marketing (15 Hours)

Web marketing – Definition, Importance, Benefits, Challenges - Website Planning and Creation, Static Vs Dynamic Website, Content Management Systems, Domain name- Understanding domain names & domain extensions, Web Hosting, Types of web hosting.

Unit – 4 Search Engines (15 Hours)

Search Engine – Definition, how search engines work, Google guidelines, Difference between portal and search engines - Organic Search vs. Paid Search Results.

Search Engine Optimization (SEO): meaning, Types of SEO, Local SEO- Benefits of Local SEO, Techniques to get on top of Google.

Search Engine Marketing (SEM):

Meaning, Google AdWords- Search ads, Display ads, Video Ads, Shopping Ads, Google Ads Account.

Unit – 5 Social Media Marketing (15 Hours)

Social Media Marketing - Meaning, Importance, Benefits, Challenges, YouTube Marketing, Facebook Marketing, Instagram & LinkedIn Marketing, Pinterest Marketing, Influencer Marketing- Meaning, Platforms. Online Reputation Management- tools and strategies of online reputation management.

Text Books:

1. Ahuja, V. (2015). Digital Marketing, Oxford University Press.
2. Strauss, J., Frost, R. & Ansary, A. I. (2009). E- marketing (Vol. 4), São Paulo: Pearson Prentice Hall.

Reference Books:

1. Charlesworth, A. (2014), Digital marketing: A practical approach, Routledge
2. Zimmerman, J., & Ng, D. (2015), Social media marketing all-in-one for dummies John Wiley & Sons.
3. Enge, E., Spencer, S., Fishkin, R., & Stricchiola, J. (2012). The art of SEO. O'Reilly Media, Inc.

YEAR - III	EXPORT IMPORT MANAGEMENT	CODE – EBB51C
SEMESTER – V		HOURS / WEEK – 6
DISCIPLINE SPECIFIC ELECTIVE -1		CREDIT - 5

Objective: To enable the students to acquire the knowledge on import and export management.

Course Outcomes (CO's):

CO1: Students will understand the Import Export Policy of Government of India.

CO2: Students will know the Government authorities involved in Import & Export operations.

CO3: Students will know the significance of export documentation.

CO4: Students will understand the export procedure.

CO5: Students will have the knowledge about GST and related terminologies.

Semester	Course Code	Course Title												Hours	Credit
V	EBB51C	Export Import Management												6	5
Course Outcomes (COS)	Programme Outcomes (PO's)					Programme Specific Outcomes (PSO's)								Mean Score Of CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8		
CO1	5	4	5	4	5	4	5	4	5	4	5	4	3	4.38	
CO2	3	2	4	5	4	3	2	4	2	3	4	5	6	3.61	
CO3	4	4	4	4	4	5	5	5	4	4	4	4	3	4.15	
CO4	5	5	5	5	5	3	4	5	5	3	2	2	2	3.92	
CO5	3	3	4	5	5	4	4	5	5	4	5	4	5	4.30	
Mean Overall Scores												4.07			

Result: The Score of this Course is 4.07 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcomes and Programme Specific Outcomes.

UNIT – I: Policy**(10hrs)**

Export –Import Policy Historical review and current Export – Import policy of the Govt. of India and its implications. Export –Import Licensing – Policy & Procedure, Inco terms.

UNIT – II Government Authorities**(16hrs)**

Government Authorities– Department of Commerce, CCI&E, Cabinet committee, Board of Trade, Zonal Advisory Committee, State Govt. Commodity Organization – Export Promotion councils, Commodity Boards, ECGC, Trade fair Authority, FIEO, Exim Bank, DGCI&S, STC, and MMTC etc.

UNIT – III Significance of Export Documents**(14 hrs)**

Significance of Export Documents -Type of documents, Trade documents, Regulatory documents. Import documentation –Import procedures – Guidelines – Key documents used in importing – import licensing and other incentives.

UNIT – IV Export procedure**(20hrs)**

Export procedure -Steps of Export procedure, Banking procedure of Export Documents-Bill of lading, Bill of Exchange, Certificate of Origin, Marine Insurance Policy, Letter of Credit, GR-1 Form, Schemes under Foreign Trade Policy

UNIT – V GST**(15hrs)**

GST in India – Introduction – Supply under GST – Charge of GST – Exemptions from GST – Time of Supply – Value of Supply – Input Tax Credit – Registration – Tax invoice, Credit and Debit notes – Payment of Tax – Returns.

Text Books

1. T.A.S. Rajagopal - Export Management, - Himalya Publishing House.
2. C. Rama Gopal - Export Import Procedure – New Age International Publishers, 2020.
3. CA.Pushendra Sisodia - Handbook on Goods & Service Tax (GST), 2018

Reference Books

1. Justin Paul, Rajiv Aserkar - Export Import Management Marketing – Oxford Publications,2013
2. Verma &Agrawal - Foreign Trade Management – Commonwealth Publishers, Delhi
3. Verma, M.L - International Trade - Commonwealth Publishers, Delhi

YEAR - III	COMPENSATION MANAGEMENT	CODE – EBB63C
SEMESTER – VI		HOURS / WEEK – 6
DISCIPLINE SPECIFIC ELECTIVE -3		CREDIT - 4

Objectives:

- To understand the various dimensions of Compensation Management.
- To familiarise the role of various bodies involved in Compensation Management.

Course Outcomes (CO's):

On successful completion of the course students will be able to

- CO1:** Understand the basic concepts about Compensation.
- CO2:** To comprehend about Compensation classifications & Compensation determination.
- CO3:** Acquainted with knowledge about Wage theory and incentive plans.
- CO4:** Cognize and interpret about compensation packages and pay system.
- CO5:** Equip with wage boards, employee benefit programmes.

Semester	Course Code	Course Title												Hours	Credit
VI	EBB63C	Compensation Management												6	4
Course Outcomes (COS)	Programme Outcomes (PO's)					Programme Specific Outcomes (PSO's)								Mean Score Of COS	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8		
CO1	5	4	5	4	5	4	5	4	5	4	5	4	3	4.38	
CO2	4	4	4	5	4	5	4	3	3	2	4	5	5	4.08	
CO3	5	5	3	4	5	5	3	5	2	5	4	5	3	4.15	
CO4	3	4	3	4	5	4	4	3	4	4	5	5	5	4.08	
CO5	3	3	4	5	5	4	4	5	5	4	5	4	5	4.31	
Mean Overall Scores													4.20		

Result: The Score of this Course is 4.20 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit - I**(15 Hours)**

Compensation - Definition - Compensation Responsibilities – Compensation System Design Issues – Compensation Philosophies – Compensation Approaches.

Unit - II**(15 Hours)**

Compensation Classification - Types - Incentives - Fringe Benefits - Strategic Compensation Planning – Determining Compensation – The wage Mix – Development of Base Pay Systems – The Wage Curve – Pay Grades – Salary Matrix – Compensation as a Retention Strategy.

Unit - III**(15 Hours)**

Theories of Wages - Wage Structure - Wage Fixation - Wage Payment - Salary Administration - Executive Compensation – Incentive Plans – Team Compensation – Gain Sharing Incentive Plan – Enterprise Incentive Plan – Profit Sharing Plan- ESOPs – Compensation Management in Multi-National organisations.

Unit - IV**(15 Hours)**

Methods of Rewarding of Sales Personnel – Performance Based Pay Systems - Incentives - Executive Compensation Plan and Packages - Perceptions of Pay Fairness – Legal Constraints on Pay Systems.

Unit - V**(15 Hours)**

Wage Boards - Pay Commissions - Employee Benefits – Benefits Need Analysis – Funding Benefits – Benchmarking Benefit Schemes - Employee Benefit Programmes – Security Benefits – Creating a Work Life Setting – Designing Benefit Packages

Text Books

1. Dewakar Goel, Performance Appraisal And Compensation Management, PHI Learning, New Delhi, 2008
2. Richard.I. Henderson, Compensation Management In Knowledge Based World, Prentice Hall India, New Delhi.

Reference Books

1. Richard Thrope & Gill Homen, Strategic Reward Systems, Prentice Hall India, New Delhi.
2. Michael Armstrong & Helen Murlis, Hand Book Of Reward Management, Crust Publishing House.

YEAR - III	CONSUMER BEHAVIOUR	CODE – EBB64C
SEMESTER – VI		HOURS / WEEK – 6
DISCIPLINE SPECIFIC ELECTIVE -4		CREDIT - 4

Objectives:

- To highlight the importance of understanding consumer behavior in Marketing.
- To study the environmental and individual influences on consumers.
- To understand consumer behaviour in Indian context.

Course Outcomes(CO's):

- CO1: Student shall be able to learn and understand the importance of consumer behavior in marketing and differential consumer behavior in Indian context.
- CO2: To understand role of marketing in influencing consumer behavior.
- CO3: To analyse the role of marketer & the consumer in advertizing.
- CO4: To sensitize the students to the changing trends in consumer behavior.
- CO5: To understand Post purchase Behaviour.

Semester	Course Code	Course Title												Hours	Credit
VI	EBB64C	Consumer Behaviour												6	4
Course Outcomes (COS)	Programme Outcomes (PO's)					Programme Specific Outcomes (PSO's)								Mean Score Of COS	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8		
CO1	5	4	5	4	5	4	5	4	5	4	5	4	3	4.38	
CO2	3	5	4	5	4	3	4	4	5	3	4	5	6	4.23	
CO3	4	4	5	5	4	5	5	5	4	4	4	4	3	4.31	
CO4	5	5	5	5	5	3	4	5	5	3	3	3	2	4.08	
CO5	4	3	4	5	5	4	4	5	5	4	5	4	5	4.38	
Mean Overall Scores													4.28		

Result: The Score of this Course is 4.28 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit-I: Consumer Behaviour Introduction (15 Hours)

Consumer behaviour – Definition – scope – customer value – Customer satisfaction – Injurious consumption – Traditional marketing concept – Value and retention focused marketing – Models of Consumer Behavior – Nicosia, Howard sheth – Consumer benefits and evaluative criteria – Decision Heuristics.

Unit-II: Consumer motivation, Personality (15 Hours)

Needs – Goals – Discovering purchase motives – motivation research – Defence mechanism – Personality – Consumer innovativeness – Dogmatism – Cognitive personality factors – Personality and colour –Self-image – Forms of self-image – How general personality influence consumer behaviour.

Unit-III: Consumer learning and Reference group appeal (15 Hours)

Classical Conditioning – Instrumental Conditioning – Information Processing – Perceptual mapping – Tricomponent attitude model – Multi attribute attitude model – Attribution – Consumer related reference groups – Brand communities – Family decision making process – Family life cycle.

Unit-IV: Consumer perception (15 Hours)

Perception – Weber's Law – Selective perception – Figure and ground, grouping, closure – Perceptual distortion – Perceived risk – Perceived quality - Opinion leadership – Surrogate buyer – Diffusion of innovation – Adopter categories – Adoption process.

Unit-V: Purchasing Process and Post purchase behavior (15 Hours)

Store location, Store design and Physical facilities – Store specific shopper profiles – In-store purchasing behaviour – Usage segmentation – Brand user, Product user, Loyalty, situation segmentation – Positive / negative Post purchase Behaviour – Complaint Behaviour.

Text Book:

1. Jay D. Lindquist, M. Joseph Sirgy, Shopper, buyer and Consumer Behavior, Biztantra, New Delhi, 2007.
2. Del I. Hawkins, Roger J. Best, Kenneth A. Coney, Amit Mukherjee, Consumer Behavior Building Marketing Strategy, 9/e, Tata McGraw-Hill, New Delhi, 2007.

Reference Books:

1. Leon G.Schiffman, Kanuk Leslie Lazar, Consumer behavior, PHI Learning, New Delhi, 2008.
2. David L. Loudon, Albert J. Della Bitta, Tata McGraw-Hill, New Delhi, 2007.
3. Satish K Batra, S H H Kazmi, Consumer Behavior, Excel Books, New Delhi, 2008

YEAR - III	INTERVIEW SKILLS TRAINING	CODE – JBB65A
SEMESTER – VI		HOURS / WEEK – 3
SEC -4		CREDIT - 3

Objective: To train the students on various interview skills.

Course Outcomes (CO's): On successful completion of the course students will be able

CO1: To understand the fundamentals of interview.

CO2: To prepare oneself when the interview is scheduled

CO3: To prepare before the interview

CO4: To prepare during the interview

CO5: To prepare after the interview.

Semester	Course Code	Course Title												Hours	Credit
VI	JBB65A	Interview Skills Training												3	2
Course Outcomes (COS)	Programme Outcomes (PO's)					Programme Specific Outcomes (PSO's)								Mean Score Of COS	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8		
CO1	5	4	5	4	5	4	5	4	5	4	5	4	3	4.38	
CO2	3	5	4	5	4	3	4	4	5	3	4	5	6	4.23	
CO3	4	4	5	5	4	5	5	5	4	4	4	4	3	4.31	
CO4	5	5	5	5	5	3	4	5	5	3	3	3	2	4.08	
CO5	4	3	4	5	5	4	4	5	5	4	5	4	5	4.38	
Mean Overall Scores													4.28		

Result: The Score of this Course is 4.28 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcomes and Programme Specific Outcomes.

Unit – I Introduction to interviewing (15 hours)

Understanding different types of interview – Writing an effective resume – Developing references – Wise usage of Technology – Identifying and developing unique style – Self Evaluation (Identifying Strengths and Blind spots).

Unit – II Once the Interview is Scheduled (15 hours)

Company Research (About the company – Organization’s background - Job Description – Growth potential) - Prepare and Practice for Interview (Self-preparation) – Focusing on IQ and EQ - Mock Interview (through teachers/ professionals) – Self grooming – Health consciousness.

Unit – III Before the Interview (15 hours)

Professional dress code – Understanding colour psychology – Personal hygiene – Necessary documents for interview– Punctuality and Discipline – Performing the preliminary rounds (Aptitude test – Group discussion – IQ/ EQ test)

Unit – IV During the Interview (15 hours)

Creating first impression – Body language Do’s and Don’ts – Delivery of speech – Listening to questions – Truthful and Diplomatic replying –Identifying Common bonds.

Unit – V After the Interview (15 hours)

Thanking the interviewer – Following up – Preparing for the next round of interview – Taking notes and reviewing the interview process – Handling interview failures - developing positivity.

Examination

Internal – 75 Marks

External – 25 Marks (Viva – Voce)

QUESTION PAPER PATTERN
For Business Administration Papers

Time: 3 Hours

Marks: 75

1. Part - A = $10 \times 2 = 20$ Marks – All the questions are to be answered.
2. Part – B = $5 \times 5 = 25$ Marks – Answer five out of seven – Open choice.
3. Part – C = $3 \times 10 = 30$ Marks – Answer three out of five – Open Choice.

Note: Questions should be asked from all the units with equal weightage.

For Computer Applications Papers

Time: 3 Hours

Marks: 75

- 1) Part - A = $5 \times 5 = 25$ Marks – Answer five out of eight – Open choice
- 2) Part – B = $5 \times 10 = 50$ Marks – Answer five out of eight – Open choice

Note: Questions should be asked from all Units. Equal importance should be given to all units.

Computer Applications Lab

Internal - 40 Marks

External – 60 Marks

For Accounting Papers

Time: 3 Hours

Marks: 75

- 1) Part - A = $10 \times 2 = 20$ Marks – All the Questions are to be answered.
- 2) Part – B = $5 \times 5 = 25$ Marks – Answer five out of seven – Open choice.
- 3) Part – C = $3 \times 10 = 30$ Marks – Answer three out of five – Open Choice.

Note: Questions should be asked from all Units. Equal importance should be given to all Units.

Theory: 20% Problems: 80%

Syllabus

I M.S.W	SOCIAL WORK PROFESSION	PSW11A
SEMESTER – I		HRS/WK – 4
CORE – I		CREDIT – 4

OBJECTIVE:

To understand the basic concepts of Social Work and Social Work Profession.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be familiar with the Social Work and related concept along with social work theories.

CO2: Know the history, philosophy, and fields of Social Work.

CO3: Understand the social work profession and relationship with other professions and its problems.

CO4: Discover Social Work education in India.

CO5: Be relevant to the skills of Social Work in the major fields of Social Work.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: PSW11A					COURSE TITLE: SOCIAL WORK PROFESSION					HOURS: 4	CREDIT: 4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	5	4	4	3	5	5	4	3	5	5	4.3	
CO2	5	3	5	4	5	5	5	3	5	5	4.5	
CO3	5	3	4	4	5	5	5	4	5	5	4.5	
CO4	5	4	5	4	5	5	5	4	4	5	4.6	
CO5	5	3	5	4	5	5	5	4	5	5	4.6	
Mean Overall Score											4.5	

Result: The Score of this Course is 4.5 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **Very High** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Social Work: Concept, Definition and related Concepts: Social Service, Social Policy, Social Legislation, Social Transformation, Social Welfare, Social Security, Social Defense, Social Justice and Social Development. Social Work Theories: Role Theory, Problem Solving and Gestalt Theory.

UNIT II

Evolution of Social Work in UK and USA. Scope of Social Work. Social Work in India: Ancient period: Vedic, Vedantic and non-Vedic ideologies. Medieval period: Zoroastrianism and Islam in India - Mysticism of Bhakti and Sufi Movements - Sikhism. Modern period: Christianity in India - Hindu Reform Movements - Dalit Movements - Gandhian ideology and Sarvodaya movement.

UNIT III

Social Work as a Profession: Objectives, Philosophy, Principles, Methods, Values and Ethics. Professional Social Work and Voluntary Social Work. Interdisciplinary Nature of Social Work & its Relationship with Other Professions. Professional Associations, Problems faced by the Social Work Profession in India.

UNIT IV

Social Work Education in India - Focus, Nature and Content of Social Work Education. Field Work in Social Work Profession: Objectives, Need and Importance - Significance of Field Work Supervision. Problems and Prospects of Social work profession in India. Role of Voluntary Organizations and Government in promoting social work profession in India. National and International Professional Associations. Social Work Profession and Education in Global perspective.

UNIT V

Fields of Social Work Practice: Family and Child Welfare – Educational Settings - Medical and Psychiatric Social Work – Corporate Settings - Correctional Social Work - Urban, Rural and Tribal Community Development - Ecology and Environment - Disaster or Crisis Management and Rehabilitation - Human Rights - Social Work with Marginalized and Vulnerable sections - Geriatric Social Work. Recording in social work.

TEXT BOOKS:

1. Bradford W. Shea, Charles J. Horejsi, 2011, Techniques and Guidance for Social Work Practice, Eastern Economy Edition.
2. P. D Mishra, Social Work Philosophy and Methods, Inter India Publications.
3. Samuel H Taylor, 2013, Theory and Practice of Community Social Work, New Delhi.
4. Sanjay Bhattacharya, 2006. Social Work an Integrated Approach, New Delhi: Deep and Deep Publications.
5. Sharma Vivek.UGC NET Tutor Social Work, 2014, Arihant Publications, New Delhi.

REFERENCE BOOKS:

1. Bhattacharya, Sanjay. 2013. Social Work Interventions and Management. New Delhi: Deep and Deep Publications.
2. Chowdhry, D.P. 2001. Introduction to Social Work. New Delhi: Atma Ram.
3. Cox, David & Manohar Pawar. 2006. International Social Work – Issues, Strategies and Programs. New Deli: Vistar Publications.
4. Desai, Murali 2002 Ideologies and Social Work: Historical and Contemporary Analysis, Jaipur: Rawat Publication.
5. Dominelli, Lena. 2004. Social Work: Theory and Practice for a Changing Profession. London: Polity Press
6. Gilbert, Neil. et. al. 2002. An Introduction to Social Work Practice. New Jersey: Prentice Hall.
7. Sheldon, B., & Macdonald, G., 2010 A Textbook of Social Work, London: Routledge.

I M.S.W	SOCIAL CASE WORK	19PSW12
SEMESTER – I		HRS/WK – 4
CORE– II		CREDIT – 4

OBJECTIVE:

To know the basic concepts of a Social Case Work and its Practice.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Acquire knowledge on the foundation of case work.

CO2: Understand the professional relationship between client and social worker.

CO3: Know the process of social case work.

CO4: Gain knowledge on the models and approaches of Social Case Work and its application

CO5: Apply the Knowledge of case work in different settings.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: 19PSW12					COURSE TITLE: SOCIAL CASE WORK					HOUR S:4	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	3	5	4	5	5	5	3	4	4	4.3	
CO2	5	3	5	4	4	5	5	4	5	5	4.5	
CO3	4	3	5	4	5	5	5	4	4	4	4.3	
CO4	5	4	5	5	5	4	5	5	4	4	4.6	
CO5	5	4	5	4	5	5	5	3	5	5	4.6	
Mean Overall Score											4.46	

Result: The Score of this Course is 4.46 (Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **Very High** association with Programme Outcome and Programme Specific Outcome

UNIT I

Case Work: Meaning, Definition, Historical Development; Scope and limitations, its importance and Relationship with other methods of Social Work. Values - Worth and Dignity of Clients; Basic components of Social Work – Person, Problem, Place and Process and Principles of Social Case Work.

UNIT II

Case worker-client Relationship: Meaning and its importance. Characteristics of Professional relationship: empathy, Sympathy, Transference, Counter Transference, Resistance, Sustaining the relationship, Genuineness, Unconditional Positive regard and Self Disclosure.

UNIT III

Case Work Process: Intake and Exploration: Analysis and assessment – Psychosocial Diagnosis, Formulation of goals, Prioritization of Needs, Development of Action Plan, Use of Contracts; Intervention: Counseling and use of Supportive and Reflective Techniques of Direct Influence; Importance of involvement Collateral Contacts in the entire Process.

UNIT IV

Approaches to practice: Psychosocial, Functional, Problem Solving, Crisis intervention; Eclectic Model for Practice. Case work Interviewing: Principles, Techniques and Skills. Casework Recording: Types of Records, Record Maintenance. Recent Techniques in Social Case Work Practice: Indigenous Social Case Work practices.

UNIT V

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, 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.

TEXT BOOKS:

1. Bradford W. Sheaf, 2012 Techniques and Guidelines for social work practice, New Delhi.
2. Louise C. Johnson, Stephen J. Yanca, 2011, Social Work Practice A General Approach, PHI Learning Private Limited, New Delhi.
3. P. D Mishra, 2001, Social Work Philosophy and Methods, Inter India Publications.
4. R. K. Upadhyay, 2003, Social Case Work a Therapeutic Approach, Rawat Publications New Delhi.
5. Sanjay Bhattacharya, 2003, Social Work An Integrated Approach, Deep & Deep Publications Pvt. Ltd.

REFERENCE BOOKS

1. Hamilton Gordon (2013). Theory and Practice of Social Case Work – 2nd Edition, Rawat Publications, India.
2. Keats, Daphne (2002) Interviewing – A Practical Guide for Students and Professionals, New Delhi: Viva Books Pvt.Ltd.
3. Payne Malcolm, (2005): Modern social work theory, 3rd edition, Palgrave macmillian, Newyork.
4. Perlman HH (2011), Social Case Work: A Problem Solving Process, Rawat Publications, India.
5. Robert W, Roberts Robert H. Nee, 2000 Theories of Social Casework, unity of Chicago Press, Chicago.
6. Upadhyay, R.K, 2003 Social Casework: A Therapeutic Approach, Rawat Publications, India.

I M.S.W	SOCIAL GROUP WORK	21PSW13
SEMESTER – I		HRS/WK – 4
CORE – III		CREDIT – 4

OBJECTIVE:

To understand the basic concepts of Social Group Work and responsibility of group worker.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Understand Social Group, Stages of Development and its Process.

CO2: Develop theoretical understanding on Group Work as a method of Social Work.

CO3: Demonstrate ethical standards in working with the group

CO4: Practice Social Group Work as a method of Social Work in the field

CO5: Utilize programme media in Social Work practice

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: 21PSW13					COURSE TITLE: SOCIAL GROUP WORK					HOURS: S:4	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	4	3	5	4	4	5	3	5	5	4.3	
CO2	4	3	4	4	5	5	5	3	5	5	4.3	
CO3	5	4	5	4	5	5	5	3	5	5	4.6	
CO4	5	4	4	5	5	5	4	3	5	4	4.4	
CO5	4	4	5	5	5	5	5	4	5	5	4.7	
Mean Overall Score											4.46	

Result: The Score of this Course is 4.46(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **Very High** association with Programme Outcome and Programme Specific Outcome

UNIT I

Social Group: Definition, Characteristics, Types of Groups and Functions of a group; Stages of Group development: Forming, Storming, Norming, Performing, Adjourning. Group Process: Bond, Acceptance, Isolation, Rejection, Sub-group formation, Withdrawal and control. Role of Individual in group.

UNIT II

Group Work: Meaning, Definition, Purpose and Models of Group Work; Historical Development of Group Work; Principles of Group Work; Group Work Process: i) Intake and formation ii) Study and assessment iii) Intervention or treatment or programme iv) Evaluation v) Termination vi) Follow up. Difference between Group Process & Group Work Process. Group Work and Therapeutic Approach: Behavior Modification Therapy, Rational Emotive Therapy, Family Therapy. Assertive behavior. Etiquettes and Manners

UNIT III

Roles & Responsibilities of Group Worker & Significance of home visits and collateral contacts, Leadership: Concepts, Definition, Characteristics and functions, qualities of leader, Types and theories of leadership; Training for leadership; Sociometry and Sociogram. Group Morale and ethics. Group Work Supervision: Meaning, purpose, tasks, types and functions.

UNIT IV

Programme Planning: Meaning and Definition of Programme, Principles and Process of Programme Planning and the place agency in programme planning; Programme Laboratory – Values and techniques: Games, Singing, Dancing, Drama & Street play, Puppetry, Mime, Group discussions, Parties, Excursion, Psychodrama, Socio-drama, role play, Brain Storming, Camping – Planning and Conducting Camps.

UNIT V

Group Work Recording: Meaning, purpose, principles and Types of Recording, process and summary Records, Group Work Evaluation: Meaning and its place in Group Work, Steps in Group Work Evaluation and Criteria for good Group Work. Application of Group work method in different settings: Group Work Practice in Different settings: Institution for Children, Family Service agencies, Correctional Settings, Community Development Settings, Community Based Organizations, Educational Institutions, Corporate Organizations, Trade Unions, Clinical Settings, Mental Health Institutions, Home for Aged and others

TEXT BOOKS:

1. Bradford W. Sheafor Charles J. Horejsi, 2011, Techniques and Guidance for Social Work Practice, Eastern Economy Edition.
2. Trecker H.B (1972) Social Group Work: Principles and Practice. 2. Tosel and R.W & Riwas R. F (2009) Introduction to Group Work Practice.
3. Siddiqui H.Y (2008) Group Work; Theories and Practice, Rawat Publications.
4. David Capuzzi, 2017, Introduction to Group Work, Rawat Publications, New Delhi.
5. Douglas R. Gross, 2017, Foundation for Group Work, Rawat Publications, New Delhi.
6. P. D Mishra, Social Work Philosophy and Methods, Inter India Publications.
7. P. D. Misra, 2008, Social Group Work, Theory and Practice, New Royal Book Co, Lucknow.

REFERENCE BOOKS

1. Conyne K. Robert, 2013, Group Work Leadership an Introduction for Helpers (Counseling and Professional Identity), SAGE Publications, Inc. UK.
2. Donahue Bill and Bowman Grey, 2012, Coaching Life- Changing Small Group Leaders A Comprehensive Guide for Developing Leaders of Groups and Teams (Groups that Grow), Zondervan, US.
3. Gitterman Alex and Salmon Robert, 2009, Encyclopedia of Social Work with Groups, Routledge New York.
4. Kottler A. Jeffrey and Englar-Carlson Matt, 2009, Learning Group Leadership An Experiential Approach, SAGE Publications, Inc., California.
5. Lindsay Trevor and Orton Sue, 2008, Group Work Practice in Social Work, Learning Matters Ltd., New York.
6. Merchant M. Niloufer and Yozamp J. Carole, 2013, Groups in Community and Agency Settings (Group Work Practice Kit), SAGE Publications, Inc, California.
7. Shulman Lawrence, 2008, the Skills of Helping Individuals, Families, Groups, and Communities (with CD), Brooks Cole, USA.
8. Toseland W. Ronald, Rivas Robert F., 2014, An Introduction to Group Work Practice, Pearson Education Limited, England.
9. Webb Boyd Nancy, 2011, Social Work Practice with Children and Families, A Division of Guilford Publications Inc. New York.

I M.S.W	COMMUNITY ORGANIZATION AND SOCIAL ACTION	19PSW14
SEMESTER – I		HRS/WK : 4
CORE– IV		CREDIT : 4

OBJECTIVE:

To know about Community Organization and Social Action.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Develop theoretical understanding on Community Organization as a method Social Work.

CO2: Be aware of theories, models and approaches of Community Organization.

CO3: Practice Community Organization as a method of Social Work in the field of Social Work.

CO4: Extend theoretical understanding on Social Action as a method of Social Work.

CO5: Apply Social Action as a method of Social Work.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: 19PSW14					COURSE TITLE: COMMUNITY ORGANIZATION AND SOCIAL ACTION					HOURS: 4	CREDITS: 4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	5	5	4	4	5	5	5	4	4	4.6	
CO2	5	5	5	4	5	5	5	5	4	5	4.2	
CO3	5	4	5	4	5	5	5	5	4	5	4.7	
CO4	5	4	5	4	5	5	5	4	4	5	4.6	
CO5	5	5	5	4	4	5	5	4	4	4	4.5	
Mean Overall Score											4.5	

Result: The Score of this Course is 4.5(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Community: Meaning, Types and Characteristics; Community Power Structure and Minority groups. Community Dynamics: Integrative and Disintegrative Processes in the Community. Leadership: Definitions, Types and Qualities; Leadership in different types of Communities, Theories of Leadership.

UNIT II

Community Organization: Concepts, Definition, Objectives, Models, Philosophy, Approaches and Principles; Community Organization as a method of Social work; Community Welfare Councils and Community Chests. Methods of Community Organization: Planning, Education, Communication, Community Participation, Collective Decision Making, Involvement of groups and Organizations, Resource Mobilization, Co-ordination. Skills in Community organization. Awareness Creation based on Social issues.

UNIT III

Phases of Community Organization: Assessment of community using PRA, Study, Assessment, Discussion, Organization, Action, Evaluation, Modification, Continuation; Community study; Community Organization in emergencies like Fire, Famine, Flood, Drought, Earthquake and War; Community Organization at Local, State and National level; Community organization in Rural, Urban, Slum and Tribal Areas.

UNIT IV

Social Action: Definition, Objectives, Principles, Approaches, Methods and Strategies; Social Action as Method of Social Work; Social work and Social action. Roles and Responsibilities of Social Activist. Process of Social Action; Scope for Social Action in India.

UNIT V

Social Reform and Social movements - Various contributions to the theory of Social Action: Mahatma Gandhi, Periyar, Ambedkar, Paulo Freire, Saul Alinsky, Martin Luther King, and Karl Marx. Role of Social Workers in Community Organization and Social Action.

TEXT BOOKS:

1. Asha Ramagonda Patil, 2013, Community Organization and Development an Indian Perspective, Eastern Economy Edition.
2. Christopher, A.J and William, Thomas, 2006, Community Organization and Social Action, Himalaya Publication House, New Delhi.
3. Gangrade, K.D, Community Organization in India, Popular Prakasan, Bombay.
4. Samuel H Taylor, 2013, Theory and Practice of Community Social Work, New Delhi.
5. W. Sheafor Charles J. Horejsi, 2011, Techniques and Guidance for Social Work Practice, Ninth Edition, Bradford Eastern Economy Edition.

REFERENCE BOOKS:

1. Beher A & Samuel J. 2006. Social Watch in India: Citizens Report on Governance and Development, Pune : NCAS
2. Chambers Robert 2005 Ideas for Development, Earth Scan, London
3. Christopher, A.J and William, Thomas, 2006, Community Organization and Social Action, Himalaya Publication House, New Delhi.
4. Delgado, M.& Humm-Delgado, D. (2013). Assets assessments and community social work practice. New York: Oxford University Press.
5. Homan, M.S. (2011). Theoretical frameworks for community change.
6. Macmillan, Wayne: Community organization for social welfare, University of Chicago press.

I – M.S.W	PSYCHOLOGY FOR SOCIAL WORKERS	EPSW15A
SEMESTER – I		HRS/WK : 4
ELECTIVE – I (A)		CREDIT : 3

Objectives:

To understand the needs and importance of psychology in social work

COURSE OUTCOMES (CO):

After completing this course, students will:

CO1: Be exposed to the diverse psychological theories and its role in Social Work

CO2: Gain Knowledge Psychological Processes in Behaviour.

CO3: Know about the Reproductive System and Developmental Periods.

CO4: Realize the importance of self and sustainable motivation

CO5: Be aware of Abnormal Psychology and mental well being

SEMESTER I	COURSE CODE: EPSW15A					COURSE TITLE: PSYCHOLOGY FOR SOCIAL WORKERS					HOUR S:4	CREDIT S:3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	3	5	3	5	5	4	3	5	5	4.3	
CO2	4	4	4	4	5	4	5	3	4	5	4.2	
CO3	4	4	4	4	5	5	5	3	4	4	4.2	
CO4	4	4	5	4	5	5	5	4	5	4	4.5	
CO5	5	3	5	4	5	5	5	3	5	4	4.4	
Mean Overall Score											4.32	

Result: The Score of this Course is 4.32(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Psychology: Meaning, Definition, Fields, Methods and Schools of Psychology. Psychological Approach to understand Human Behaviour. Introduction to Human Growth and Development,

Developmental Stages, Developmental Tasks.

UNIT II

Psychological Processes in Behaviour: Needs and Motives. Cognition, Memory, Intelligence: Concept, theories and assessment - Motivation: Meaning, definition, types and characteristics of motives, theories of motivation- Personality: Meaning, Definition, types and factors influencing Personality and structure. Theories of Personality

UNIT III

The Beginning of life: Human Reproductive System: Fertilization, Delivery, Pre and Postnatal Care. Developmental Periods and Challenges: Infancy, Babyhood. Childhood, Puberty Adolescence, Adulthood, Middle Age and Old Age; Physical Intellectual Emotional and Social Development.

UNIT IV

Perception, Measurement of Intelligence, Self Esteem, Self-Efficacy, Self-Awareness through SWOT Analysis, Johari Window, Attitude, Positive Attitude, Adjustment and Maladjustment, Stress, Frustration, Conflict, Responsible Sexual Behavior, Motivation, learning, instincts and Mental Health.

UNIT V

Abnormal Psychology: Concepts of Normality and Abnormality. Causation of Mental Illness, Neuroses, Psychoses, Classification of Psychological Disorders. Defense Mechanism, Developmental Disorders, Anxiety related Disorders, Conduct Disorders, Epilepsy, Learning Disabilities, Scholastic related Problems. Personality Disorders, Suicidal Tendencies. Rehabilitation.

TEXT BOOKS:

1. Kalpana Deelip Bharambe, Psychology For Social Work, Current Publications.
2. Chandansingh Rotele, Harsh Samar singh Yadav, 2022: Hand Book on Psychology for Social Work, Current Publications.
3. Mangal, S K., General Psychology. New Delhi: Sterling, 2010
4. Vankhede, A N., Handbook of Psychology. New Delhi: Wisdom Press, 2012
5. Chaube S.P, Chaube .A, Essentials of General Psychology (An Analytical Study for the Fundamentals for UG and PG Classes). Hyderabad: Neelkamal, 2011
6. Compton, Beulah. Galaway, Cournoyer, Social Work Processes. Ed 7, USA: Brooks Cole Learning, 2005
7. Corner Ronald, J . Abnormal Psychology. New Delhi: Wisdom Press, 2012

REFERENCE BOOKS:

1. Carson (2012). Abnormal Psychology. (15th ed). Pearson Education
2. Hurlock, Elizabeth (2001): Developmental Psychology, Tata McGraw Hill, New York.
3. Mangal, S.K. (2006): An Introduction to Psychology, Sterling Publishers Pvt. Ltd.
4. Misra, Girishwar Misra (2011): Handbook on Psychology in India, Oxford University Press, New Delhi.
5. Park, K (2015): Park's Textbook of Preventive and Social Medicine, Banarsidas Bhanot Publishers, Jabalpur.
6. Priya, Ritu and Shweta A.S. (2010). Status and Role of AYUSH Services and Use of Local Health Traditions under the NRHM: A Health Systems Study across 18 States (co-author: Shweta Awasthi Saxena), National Health Systems Resource Centre.
7. Sarason & Sarason (2011). Abnormal Psychology - The Problem of Maladaptive Behaviour

(12thed). Pearson Education.

I – M.S.W	FAMILY AND MARITAL COUNSELLING	EPSW15B
SEMESTER – I		HOURS : 4
ELECTIVE –I (B)		CREDIT : 3

OBJECTIVE:

To know about the importance of family and marital counselling and its theoretical parts.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be enriched to work with dysfunctional family system and be aware of methods to resolve

CO2: Be provided with conceptual understanding of family as a system and changes involved and its reflection on family relationship

CO3: Be provided with theoretical perception on family welfare management.

CO4: Be facilitated to develop skills and insight of social worker in resolving issues.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: EPSW15B					COURSE TITLE: FAMILY AND MARITAL COUNSELLING					HOUR S:4	CREDIT S:3
	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)						
COURSE OUTCOMES (CO)	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	4	3	4	3	4	4	4	3	4	4	3.7	
CO2	4	3	3	3	4	3	4	4	4	4	3.6	
CO3	5	4	3	4	5	5	5	4	4	4	4.3	
CO4	5	4	5	3	4	5	5	3	4	5	4.3	
Mean Overall Score											3.975	

Result: The Score of this Course is 3.975(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Family definition, Marriage, Types of families, Emerging families, Family ecology, Family functions, Family norms, Family patterns, Family structure, Family practices. Family as system, Family development tasks. Changing pattern of family in India. Communication in family: Importance, patterns of communications, factors affecting communications in families.

UNIT II

Theoretical foundations for counseling: Cognitive – Developmental cognitive behavioral, Humanistic Theories, Existential counseling, Adlerian Systems theory, Postmodern theories.

UNIT III

Understanding the Dysfunctional family: Factors contributing to dysfunctional family system, broken families, single parent families. The impact of broken families on children.

UNIT IV

Marriage and family; aims and types of marriage. Factors contributing to marital conflicts. Separation and divorce, Stress, Lack of adequate child care, inflexible work environment, infertility, Adoption, surrogate mothers Family Violence: Wife battering, Husband abuse, Child abuse, Elder abuse, Parent abuse. Family Intervention: Genogram, Methods of assessment, Rehabilitation, Crisis intervention, strengths and resilience

UNIT V

Counseling: Definition, Family counseling; Marital Therapy; Pre-marital Counseling; approaches to marital Therapy.

TEXT BOOKS:

1. Colin Feltam, Windy Dryden, 2010 Brief counseling A Practical Integrative Approach, Tata McGraw – Hill publishing company limited, New Delhi.
2. Randy J Larsen. Personality psychology, New Delhi, 2011
3. Robert L. Gibson, Marianne H. Mitchell, 2009, Introduction to Counseling and Guidance, PHI Learning Private Limited, New Delhi.
4. Samuel T. Gladding, 2009, Counseling A Comprehensive Profession, Pearson, New Delhi.
5. Sister Mary Vishala, 2006. Guidance and Counseling (for teachers, parents & students), S. Chand & Company Limited, New Delhi.
6. UGC NET/ SET Social Work Trueman's Specific series, 2016, Danika Publishing Company.

REFERENCE BOOKS:

1. Augustine Meier, and Micheline Boivin (2010), Counseling & Therapy Technique, Theory and Practice (Sage).
2. Desai and Raju(2000) Gerontological Social Work in India: Some issues and perspectives, BR Publishers, New Delhi.
3. Egan, G. (2013). The skilled helper - A Problem Management Approach to Helping. Brooks or Cole Publishers.
4. Fonsea Mabe: Counseling for marital happiness, Leensufala, Bombay. Indian Social Institute: The family in the change and challenge of the seventies sterling publications, New Delhi.
5. Nelson-Jones (2010). The theory and practice of counseling and Therapy (5th Edition). Sage Publication.
6. Nelson-Jones (2008).Basic Counseling Skills. Sage Publications.
7. Rosemary A Thompson (2016). Counseling Techniques-Improving relationships with others, ourselves, our families, and our environment, 3rd ed. Routledge.

YEAR – I	SOCIAL WORK WITH CHILDREN AND YOUTH	CODE: EPSW15C
SEMESTER – I		HRS/WEEK : 4
ELECTIVE –I (C)		CREDIT : 3

Course Outcome:

After completing this course, students will:

CO1: Be enriched with demographic details of children.

CO2: Be provided with conceptual understanding of health and nutrition factors of youth and children.

CO3: Be provided with theoretical perception on Children and Youth in Difficult Circumstances.

CO4: Be aware of Special problems of child and youth.

CO5: Be familiar with Constitutional Safeguards of child and youth.

SEMESTER I	COURSE CODE: EPSW15C					COURSE TITLE: SOCIAL WORK WITH CHILDREN AND YOUTH					HOURS: 4	CREDITS: 3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	4	3	4	3	4	4	4	3	4	4	3.7	
CO2	4	3	3	3	4	3	4	4	4	4	3.6	
CO3	5	4	3	4	5	5	5	4	4	4	4.3	
CO4	5	4	5	3	4	5	5	3	4	5	4.3	
Mean Overall Score											3.975	

Result: The Score of this Course is 3.975(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Demographic profile of children and youth in India; rural urban differences; important statistics related to the status of children in India and Tamil Nadu; female child in India: gender differences in child rearing and socialization. Socialization of youth: influence of family, peer, neighbourhood, reference groups, religion. Impact of westernization. Modernization and urbanization.

UNIT II

Health and nutritional status and needs of children and youth, health services ICDS. MCH, School health and NGO Programmes; role of UNICEF and WHO; various types of health intervention for children. Educational Status and needs of children: problems in education; Universal primary education-Samagra Shiksha Abhiyan (SSA), Transit schools, School Social Work-objectives, activities.

UNIT III

Children and Youth in especially difficult circumstances destitute and abandoned children services for the destitute child Institutional and Non institutional Foster Care and Adoption, Delinquent child - Juvenile justice system: Child trafficking-dimensions and interventions; Child Abuse: dimensions, causes and interventions; Street and Working Children: causes, Interventions (Govt. and NGO). Children of sex workers. Displaced children. Natural Disasters and children, Children living with HIV/AIDS, Children of Prisoners.

UNIT IV

Children and youth in need of special care: Physically challenged children - extent, causes, policies and programmes, other interventions; Mentally challenged children - types, interventions' Emotionally challenged children: types, interventions; Child Guidance Clinic Specific problems of youth: behavioural problems such as drug abuse, alcoholism, suicide, and sexual issues. Functional disorders: eating disorders, obesity, Emotional problems: identity crisis, alienation, career conflict. Approaches of working with Youth. Skill training and employment.

UNIT V

Constitutional safeguards, POCSO, JJ Act, National Policy, National Policy for Children, Draft National Policy for Youth. Plan of Action, State and Central Government programmes for children. UN Charter for Child rights, laws relating to Children, Juvenile Justice, Child Welfare Committee, Child rights advocacy, Government and NGO programmes for Youth in India.

TEXT BOOKS

1. Saju Parackal and Rita Panicker, 2022: Children And Crime In India: Causes, Narratives and Interventions, Rawat Publications.
2. Sibnath Deb, Aleena Maria Sunny and Bishakha Majumdar, 2022: DISADVANTAGED CHILDREN IN INDIA: Empirical Evidence, Policies and Actions, Rawat Publications.
3. Bhatia, Vinita. Social Laws & Child Rights. New Delhi: Alfa, 2011.
4. Devi, Laxmi. Child and Family Welfare. New Dehi: Anmol, 1998.
5. Fernandez. B., Alex. Social Work for Women and Children. New Delhi: Pacific Books International, 2014.
6. Kennoson, Peter. Children as Victims. Learning Matters, 2008.
7. Landis H. Paul, Adolescence and Youth: The Process of Maturing. New Delhi: Sarup Book Publishers Pvt. Ltd., 2011

REFERENCE BOOKS:

1. NIPCCD (2002) The Child in India - A statistical Profile, NIPCCD, New Delhi
2. Devi, Laxmi (ed) 1998, Child and Family Welfare. Anmol Publications, New Delhi
3. UNICEF (1994) The Child and the Law, UNICEF, New Delhi
4. MSSRF (1994) Policy for the Young Child in Tamil Nadu, MSSRF, Chennai
5. Harsh Mander & Vidya Rao (1996) An agenda for Caring interventions for Marginalized groups, VHAI, New Deli.
6. Tripathy SN ed. (1996) Child Labour in India, Discovery Publishing house, New Delhi
7. Asha Rane (1994) Street Children: a challenge to the Social Work Profession, TISS, Bombay.

8. Channana, Geetaj & others, Children, Youth and Development. Routledge, 2017
9. Kehily, M.J. ed, Understanding youth: Perspectives, Identities and Practices. Youth: Perspectives and Practice. London: Sage Publications Ltd, 2007
10. Dugan, Laird. Approaches to Training and Development. Jaipur, Rawat , 2007.

I – M.S.W	CONCURRENT FIELD WORK PRACTICUM – I	20PSWF1
SEMESTER – I		HRS/WK : 10 *
CORE PRACTICAL – I		CREDIT : 4

OBJECTIVE:

To know about different field of Social Work Profession through observation visits and to learn about street theatre.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to different fields of Social Work

CO2: Understand the role of professional Social Worker in a structured agency

CO3: Understand and reflect on diverse needs and problems of the target groups

CO4: Appraise on the theoretical framework, approaches, models and practices

CO5: Develop positive framework about the profession

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: 20PSWF1					COURSE TITLE: CONCURRENT FIELD WORK PRACTICUM – I					HOURS: 10	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	4	5	5	5	3	4	5	4.5	
CO2	5	4	4	3	5	5	4	3	4	4	4.1	
CO3	4	4	5	4	5	5	5	3	5	5	4.5	
CO4	5	4	5	4	5	5	4	3	5	5	4.5	
CO5	5	4	5	3	5	5	4	3	4	5	4.3	
	Mean Overall Score										4.38	

Result: The Score of this Course is 4.38(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

Field Work is very important element in the curriculum of Social Work. Extension activities are being promoted to develop the community towards different aspects of development. Observation visits and Group Project on current social issues are expected to be organized as the field work requirements in the first semester. To execute these extension activities towards the needy, the students of Social Work are prepared to develop their skills by observation visits to Community, Medical & Psychiatric and Industrial settings.

Field work practical components are scheduled every week equivalent to theory classes. To improve their physical fitness as well as mental capacity and to equip the students on the conceptual development of social issues, ten days street theatre training programme is being organized.

Field Work Components:

1. Observational Visits -The first year students during the first semester go for observational visits to various settings: Medical & Psychiatric, Rural Community Setting, Slum Visits, Industrial Setting, Correctional Setting and Tribal Setting.
2. Street Theatre training for a week
3. Group Project on Current Issues.

Every week the students write a report of their activities and submit to the concerned field work supervisor on Mondays. The supervisor conducts individual and group conference every week regularly.

At the end of the semester Viva Voce is conducted by an external examiner and marks are awarded.

The CA Mark – 40 and the SE Mark - 60.

Marks Allotments

S. No	Activity	Internal Marks	External Marks
1	Observation Visit, Street Theatre Training and Group Project	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

* Number of hours spent for two days in a week by a student in the field.

I – M.S.W	RURAL SOCIAL WORK PERSPECTIVES (RURAL CAMP)	19PSWE1
SEMESTER – I		HRS: ONE WEEK
EXTENSION – I		CREDIT : 2

OBJECTIVE:

To get Community experience and Organizing skills through Rural Camp.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Experience to the village setup.

CO2: Understand the social problems and attaining solution.

CO3: Set their leadership qualities.

CO4: Be experienced in organizing programme and create awareness to the people.

CO5: Identify their ability to cope up with the society.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER I	COURSE CODE: 19PSWE1					COURSE TITLE:RURAL SOCIAL WORK PERSPECTIVES (RURAL CAMP)					HOURS : 1 WEEK	CREDITS:2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PSO 5		
CO1	3	3	4	2	5	5	5	3	5	4	3.9	
CO2	4	3	4	3	4	5	5	3	4	5	4	
CO3	4	3	5	3	5	5	5	3	5	5	4.3	
CO4	4	3	5	3	5	5	5	3	5	5	4.3	
CO5	5	4	5	4	5	5	5	4	5	5	4.7	
Mean Overall Score											4.24	

Result: The Score of this Course is 4.24(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

The main objective of the rural camp will be to enable the students experience rural life and group living. The students with the support and guidance from the faculty will involve themselves in all

the planning and executing activities of the camp. This includes identification of the village, pilot visits for identification of projects in the village and liaison with various NGOs and Government officials. The entire class will be divided into various committees to facilitate division of work and participation of each student. A camp leader elected from the student group, will co-ordinate along with the camp in-charge faculties for efficient execution of the camp. A periodic evaluation of the camp will be conducted in the department. The students are expected to document and submit a report on their experiences and learning in the Rural Camp during the Viva-voce which is conducted internally. After the Internal Viva-voce, the students are awarded with 2 credits.

Tasks during Rural Camp:

1. Selection of a theme for the rural camp
2. Identification of a suitable village-Pilot study
3. Formation of committees and allocating work
4. Planning the programmes to be executed during the camp
5. Implementation of the programmes.

Skill Development:

Co-operating, planning, participation, adaptability, accommodating, co-ordination, organizing, networking, leadership skills, fund raising, accounting, self-evaluating skills and documenting skills.

Marks Allotments

- | | | |
|-------------------------------|---|----------|
| 1. Submission of Report | - | 20 Marks |
| 2. Presentation & Performance | - | 20 Marks |
| 3. Completion of Components | - | 20 Marks |
| 4. Skills Acquired | - | 20 Marks |
| 5. Learning Content | - | 20 Marks |

I – M.S.W	SOCIAL WORK RESEARCH AND SOCIAL STATISTICS	19PSW21
SEMESTER – II		HRS/WK : 4
CORE– V		CREDIT : 4

OBJECTIVE:

To understand the concept of Social Work Research and Social Statistics.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Develop the theoretical understanding of Social Work Research.

CO2: Employ suitable research design and formulate research hypothesis.

CO3: Adopt suitable sampling technique, tool and method of data collection.

CO4: Identify appropriate statistical tests for data analysis and gain insights for data interpretation.

CO5: Develop skills to write research proposal and prepare research report.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 19PSW21					COURSE TITLE: SOCIAL WORK RESEARCH AND SOCIAL STATISTICS					HOUR S:4	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	4	5	4	5	4	4	4	5	4	4	4.3	
CO2	3	5	4	4	4	4	4	5	3	3	3.9	
CO3	2	4	3	4	2	3	3	4	3	3	3.1	
CO4	2	4	3	3	2	3	3	4	3	3	3	
CO5	4	5	4	4	4	4	3	4	3	3	3.8	
Mean Overall Score											3.62	

Result: The Score of this Course is 3.62 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	$0 \leq \text{rating} \leq 1$	$1.1 \leq \text{rating} \leq 2$	$2.1 \leq \text{rating} \leq 3$	$3.1 \leq \text{rating} \leq 4$	$4.1 \leq \text{rating} \leq 5$
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Social Work Research: Meaning, Definition, Types – Qualitative, Quantitative and Mixed, Purpose of Research, Social Research and Social Work Research. Scientific Method: Nature, Characteristics, Purpose and Steps in Research Process; Concepts: Operationalization of Concepts, Variables and its Types, Hypothesis: Sources, Formulation, Attributes of Hypothesis and Types. Review of the Literature.

UNIT II

Research Design and Sampling: Types of Research Design: Concept and Types. Identification and Formulation of Research Problems. Sampling: Definition, Principles, Types and procedures; Population and Universe; Measurement of Scales: Meaning, Concept; Levels of Measurement; Validity and Reliability.

UNIT III

Sources and Methods of Data Collection: Sources: Primary and Secondary; Quantitative Method Research Tools: Observation, Survey Methods: Interview Guide, Interview Schedule, and Questionnaire: Construction of Questionnaire or Interview Schedule – Concept, Types of Questions. Qualitative Method: Focused Group Discussion and Case Studies. Pilot Study and Pre-testing.

UNIT IV

Data Processing and Analysis: Editing, Coding, Code Book preparation, Frequency distribution, Tabulation; Diagrammatic and Graphical Representation of Data: Types, Report writing and Referencing; Agencies involved in Social Research; Ethical Considerations of Social Work Research. Research Proposal Writing.

UNIT V

Social Statistics: Statistics: Meaning, Use and its Limitations in Social Work Research, Descriptive and Inferential Statistics, Measures of Central Tendency: Arithmetic Mean, Median and Mode, Measures of Dispersion: Range, Standard Deviation and Mean Deviation. Tests of significance: 't' Test, Chi-Square Test, ANOVA. Correlation: Meaning, Types and Uses. Karl Pearson's Coefficient of Correlation and Rank Correlation, Spearman's Rank Correlation. Manual Calculation.

TEXT BOOKS:

1. Annie E. Fortune, William J. Beird, 2017. Research in Social Work, 3rd edition, Rawat Publications.
2. Dr. N. Arumugam, Research Methodology for Life Sciences, Saras Publications.
3. P. Ravi Lochanan, 2013, Research Methodology with Business Correspondence and Report Writing, Margham Publications.
4. PC. Vainketesh, 2012, Essentials of Research Methodology, Mark Publishers.
5. Professor D. K. Karyap, 2017 The Hand Book of Social Work Research and Methods, Shikar Publications.
6. Robert C. Bogdan Sari Knopp Biklen, Qualitative Research for Education an Introduction to Theories and Methods, Fifth Edition.

REFERENCE BOOKS:

1. Ahuja R, 2010, Research Methods, Rawat Publications, Jaipur.
2. Alston M, Bowles W, 2012, Research for Social Workers, An introduction to methods, 3rd Edition, Australian Publications, Australia.
3. Babbie E, 2013, The Practice of Social Research, 13th Edition Cengage Learning, USA.
4. Chakraborty D, 2009, Research Methodology, SAURABH Publishing, New Delhi.
5. Dawson C, 2010, Introduction to Research Methods, A practical guide for anyone undertaking a Research Project, Viva Books, New Delhi.
6. Gupta B L, 2010, Research studies in Staff Development, Mahamaya Publishing house, New Delhi.
7. Pawar B S, 2009, Theory building for Hypothesis Specification in Organizational Studies, Response Books, New Delhi.
8. Rajathi A, Chandran P, 2010, SPSS for you, MJP Publications, Chennai
9. Tripathi P C, 2010, Research Methodology in Social Sciences, Sultan Chand and Sons, New Delhi.

I – M.S.W	SOCIAL WELFARE ADMINISTRATION	21PSW22
SEMESTER – II		HOURS : 4
CORE– VI		CREDIT : 4

OBJECTIVE:

To know about social welfare schemes and administrative system and applications of legislation.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Gain insight on HSO, NGO.

CO2: Be able to register the human service organizations and can administer it effectively.

CO3: Understand the different administration process.

CO4: Develop an understanding on various social legislations and its implementation.

CO5: Practice social legislations for the betterment of the society.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 21PSW22					COURSE TITLE: SOCIAL WELFARE ADMINISTRATION					HOUR S:4	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	3	4	4	5	5	4	3	4	4	4.1	
CO2	5	3	5	3	4	5	4	3	4	5	4.1	
CO3	5	3	5	4	4	5	4	3	4	5	4.2	
CO4	4	3	4	3	3	4	3	2	2	3	3.1	
CO5	4	3	4	3	4	4	3	3	4	4	3.6	
Mean Overall Score											3.82	

Result: The Score of this Course is 3.82 (High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Human Service Organizations – Features – Purpose – Historical Development – Principles - Functions - Non-Government, Non-Profit making and Self –Governing. Types of Human Service Organizations –By Orientation, Levels of operation and Focus. National Policy on Voluntary Sector, 2007. Organizational structure and characteristics of Human Service Organizations. Approaches to Organizational Management – Bureaucratic model, Human Relations model and System Theory.

UNIT II

Basic Administration Processes: Planning, Organizing, Staffing and Directing, Controlling, Reporting and Budgeting (POSDCORB). Elements of Directing – Supervision, Motivation, Leadership, Communication, Monitoring and Evaluation. Elements of Democratic Administration: Delegation, Decentralization and Participation.

UNIT III

Personnel Administration: Manpower planning, Job design, Induction, Training, Staff welfare and Service conditions. Management by Objectives as applied to Human Service Organizations. Supervision. Organizational Climate. Public Relations and Networking.

UNIT IV

Financial Administration: Budgeting, Accounting and Auditing. Banking Procedures & Practices. Maintenance of books of Accounts and Financial Documents and Records. Mobilization of Financial Resources, Grants in Aid. Administrative skills – Writing reports, letters and minutes of meetings. Maintaining Records and Data Banks.

UNIT V

Procedures in Registering an Organization - Societies Registration Act, 1860, Indian Trust Act, 1882, Section 3 & 25 of Indian Companies Act, 1956. Foreign Contribution and Regulation Act, 1976. Exemption from Income Tax. Administrative Structure – Memorandum, Bye laws, Constitution, Functions and responsibilities of governing board, committees and office bearers. Administrative structure at the Central, State and Local level. Social Welfare Departments. Programme of Central Social Welfare Board and State Social Welfare Board.

TEXT BOOKS:

1. Bradford W. Shea, Charles J. Horejsi, 2011, Techniques and Guidance for Social Work Practice Ninth Edition, Eastern Economy Edition.
2. D. Paul Chowdhry Social Welfare Administration
3. P. D Mishra, Social Work Philosophy and Methods, Inter India Publications.
4. Roger A. Lohmann, Nancy Lohmann, 2015, Social Administration, Rawat Publications.
5. Sanjay Bhattacharya, 2017, Social Welfare Administration and Development, Rawat Publications.
6. Suresh Chandra Anne Karen Trollope, 2015, Non-Governmental Organization Origin and Development, Rawat Publications.

REFERENCE BOOKS:

1. Allison, M. & Kaye, J. 2005. Strategic Planning for Nonprofit Organizations, 2nded. New York: John Wiley & Sons.
2. Batra, Nitin. 2004. Administration of social Welfare in India. Jaipur: Raj Publishing House.
3. Bhattachary, Sanjay. 2009. Social Work Administration and Development. New Delhi: Rawat Publication.
4. Harihar Bhattacharya, Parthasarkar and AngshumanKar (eds) (2009) The Politics of Social Exclusion in India: Democracy at the Crossroads, Routledge.
5. P. Subba Rao, 2017. Management and Organization behavior (Text and Cases) Himalaya publishing House.
6. Samvel.C. Certo and S. Trevis Certo. Modern Management. Prentice Hall of India Pvt Ltd. 2007.
7. Sooryamoorthy R and Gangrade K.D. 2006. NGOs in India-A cross Sectional study New Delhi: Rawat Publication.

I – M.S.W	SOCIAL POLICY AND SOCIAL LEGISLATIONS	21PSW23
SEMESTER – II		HOURS : 4
CORE – VII		CREDIT : 4

OBJECTIVE:

To know about kinds of social policy and Social legislations and applications in community.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Learn about social policy and Indian Constitution.

CO2: Understand the policies and programmes in India.

CO3: Learn about social legislations legal system.

CO4: Know about legislations concerned with family, child, and so on.

CO5: Understand the significance of various Legislations.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 21PSW23					COURSE TITLE: SOCIAL POLICY AND SOCIAL LEGISLATIONS					HOUR S: 4	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	3	5	3	4	5	5	4	4	4	4.2	
CO2	5	3	5	3	5	5	5	4	4	5	4.4	
CO3	5	3	5	3	5	5	5	4	4	5	4.4	
CO4	5	3	5	3	5	5	5	4	4	5	4.4	
CO5	5	3	5	3	4	5	5	4	4	4	4.2	
Mean Overall Score											4.32	

Result: The Score of this Course is 4.32(Very High)

Association Scale	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Social Policy: Meaning, Scope, Objectives and Types. Indian Constitution: Sources, Historical Development, Fundamental Rights, Fundamental Duties and Directive principles of State Policy.

UNIT II

Policies and Programmes in India – Education, Health, Housing, Environment, Employment, Family, Child, Women, Elderly, Disabled and Backward Classes, Nithi Aayog.

UNIT III

Social Legislation: Meaning and Scope, Social Legislations in India, Indian Penal Code, Family Courts, LokAdalat, Free Legal Aid, Public Interest Litigation.

UNIT IV

The Special Marriage Act 1955, Dowry Prohibition Act 1961, Hindu Adoption and Maintenance Act 1956, Juvenile Justice (Care and Protection of Child) Act 2015, Child Labour Abolition (Prohibition and Regulation) Amendment Act 2016, Bonded Labour Abolition Act 1976, Protection of Civil Rights Act 1955, Protection of Consumer Act 1986, Right to Information Act 2005.

UNIT V

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, 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, 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

TEXT BOOKS:

1. J. Jayapalan, Constitutional History of India, MS Publications, Chennai
2. K. Shanmugavelayutham, 1998, Social legislation and social change, Chennai.
3. M. Lazmikanth, 2018, Indian Polity 4th Edition, MC Graw Hill Education Media Private Ltd, Chennai.
4. Paul Spicker, 2010, Social policy themes and approaches, 7th edition, New Delhi, Rawat Publications.
5. Vivek Sharma, UGC NET Tutor Social Work, 2014, Arihant Publications New Delhi.

REFERENCE BOOKS:

1. Gaikwad, P. E. (2004) Law Basic Concepts. Pune: YASHADA.
2. Gangrade, K.D. Social Legislation in India (Vol-1 & Vol.2), Delhi: Concept Publishing Co.
3. Gaur K. D. (2004) A Text Book on the Indian Penal Code, Delhi: Universal Law Publication Co. Ltd.
4. Mathew, P. D. (1993) Constitution of India Simplified, New Delhi: Indian Social Institute.
5. Purohit, B. R. & Joshi, Sandeep (Ed) (2003) Social Justice in India, Jaipur: Rawat Publication.
6. Shah, Ghanshyam (1998) Social Justice- A Dialogue. Jaipur: Rawat Publication.

I – M.S.W	COUNSELING: THEORY AND PRACTICE	CODE: 21PSW24
SEMESTER – II		HRS/WK : 4
CORE– VIII		CREDIT : 4

OBJECTIVE:

To understand the theories of Counselling and its application in different fields.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand counseling as a professional practice.

CO2: Acquire knowledge on the process and theories related to counseling.

CO3: Know about the practice of counseling in different setting.

CO4: Gain knowledge on family and marital counseling.

CO5: Learn the ethical principles and professional guidelines for counseling practice.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 21PSW24					COURSE TITLE: COUNSELING: THEORY AND PRACTICE					HOURS: S:4	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	4	5	4	4	4	4	3	4	4	4.1	
CO2	5	3	4	3	4	5	5	4	4	4	4.1	
CO3	4	3	5	3	4	5	5	4	4	5	4.2	
CO4	5	4	4	3	5	5	5	3	4	5	4.3	
CO5	5	4	5	4	4	5	5	4	4	5	4.5	
Mean Overall Score											4.24	

Result: The Score of this Course is 4.24(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Introduction to Counseling: Meaning, Definition, Types, Needs, Importance of Counseling and Professional Counseling. Basic Principles of Counseling: Participation, Individualization, Confidentiality, Communication, Acceptance, Self-Confidence, Self-Awareness and other Principles governing the Counseling Relationship. Qualities of Counselor.

UNIT II

Counseling Process: Interview and its Significance in Counseling – Use of Observation in Counseling and Understanding of Emotions in Counseling. Theories of Counseling: Psychoanalytic, Adlerian, Client Centered, Behavioral, Rational Emotion, Reality, Gestalt, Transactional analysis and Electric Theories.

UNIT III

Counselor as Professional; Ethical standards in Counseling; Relevance of counseling as a Social Work Practice; Role of Professional Social Worker in counseling field. Alternative Therapies: Art, Music, Recreation, Laughter, Play and Yoga – Counseling amidst COVID19 Pandemic Situation.

UNIT IV

Family and Marital Counseling: Family System – Factors affecting Communication in families – Marriage and family; Aims and types of Marriage; factors contributing to marital conflicts – Family Counseling; Infertility Counseling; Marital Therapy; Pre – Marital Counseling – Approaches to Marital therapy

UNIT V

Counseling in different settings: School Counseling, Career Counseling, Industrial Counseling, Alcoholic and De-Addiction Counseling, Crisis and Trauma Counseling, Supportive Counseling with Persons Living with HIV, TB Patients, Persons with Disabilities, Counseling against Suicidal thoughts and Community Counseling. Application of counseling theory in Social Work Practice - Techniques and Strategies in Counseling. Barriers to Effective Counseling Sessions; Counseling Evaluation.

TEXT BOOKS:

1. Colin Feltam, Windy Dryden, 2010. Brief Counseling a Practical Integrative Approach, Tata McGraw – Hill publishing company limited, New Delhi.
2. Baumgardener S, Crothers M 2015, Positive Psychology, Dorling Kindersley.
3. Robert L. Gibson, Marianne H. Mitchell, 2009, Introduction to Counseling and Guidance, PHI Learning Private Limited, New Delhi.
4. S. Narayana Rao, 2007, Counseling and Guidance, Tata McGraw – Hill publishing company limited, 2nd Edition, New Delhi.
5. Samuel T. Gladding, 2009, Counseling A Comprehensive Profession, Pearson, New Delhi.
6. Seligmam M 2013, Authentic Happiness, Atria Books
7. Snyder, Lopez, & Pedrotti, 2011, Positive Psychology: The Science and Practical explorations of human strength 2nd Edition, Sage Publications.
8. Sister Mary Vishala, 2006, Guidance and Counseling (for teachers, parents & students), S. Chand & Company Limited, New Delhi.

REFERENCE BOOKS:

1. Egan, Gerard, 2006 The skilled helper: A problem management and opportunity, Development Approach to helping, Wadsworth publishers, Boston, USA
2. Mcleod & John, 2003 Introduction to Counseling, Open university press, UK
3. Neukrug. E, 2012 Counseling theory and practice.
4. Palmer, 2004 Counseling, The BAC Counseling reader, British Association for Counseling, Vol. 1 & 2, Sage publications, New Delhi, India
5. Randy J Larsen. Personality psychology, New Delhi, 2011
6. Rao, Narayana, 2003 Counseling and Guidance, Tata McGraw Hill, New Delhi. India.
7. Sanders, 2002. First steps in Counseling, PCCS Books Ltd, UK.
8. Seligmam M, 2011, Flourish: A New Understanding of Happiness and Wellbeing: and How to Achieve Them. Nicholas Brealey Publishing, London, Boston.

I – M.S.W	SOCIOLOGY FOR SOCIAL WORKERS	EPSW25A
SEMESTER – II		HOURS : 3
ELECTIVE –II (A)		CREDIT : 3

OBJECTIVE:

To understand the concept of Sociology for social work profession.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the diverse Sociological theories and its role in Social Work

CO2: Demonstrate professional traits in dealing with the context of social stratification in India

CO3: Gain knowledge on the stages of human development and its influences

CO4: Adopt the effective style of learning; realize the importance of sustainable motivation

CO5: Be aware of application of Social Work knowledge to enhance the mental well being

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: EPSW25A					COURSE TITLE: SOCIOLOGY FOR SOCIAL WORKERS					HOUR S:3	CREDIT S:3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	3	5	3	5	5	4	3	5	5	4.3	
CO2	4	4	4	4	5	4	5	3	4	5	4.2	
CO3	4	4	4	4	5	5	5	3	4	4	4.2	
CO4	4	4	5	4	5	5	5	4	5	4	4.5	
CO5	5	3	5	4	5	5	5	3	5	4	4.4	
Mean Overall Score											4.32	

Result: The Score of this Course is 4.32(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Sociology: Meaning, nature and Scope and its Relationship with Social Work. Approaches to the Study of Society: Functionalist Perspective, Conflict or Dialectical approach, Structuralism and Post modernism, Interactionist approach and positivism. Contributions by Auguste Comte, Herbert Spencer, Karl Marx, Emile Durkhiem, Max Weber and R.K.Mukerjee, G.R.Madan, Majumdar and M.N.Srinivas.

UNIT - II

Basic Social Concepts: community, society, association, organization, social structure, and culture. Socialization: process, mechanism and agencies; Social Group – Types and Functions; Social Process: Social Interaction, Cooperation, Competition, Conflict, Subjugation, Accommodation and Assimilation. Cultural Conflict, Cohesion, Integration, Cultural Lag, Cultural Change.

UNIT III

Social Stratification – Caste and Class System. Social institution: Family, Religion, Education, Politics, Economy. Social Change: Urbanization, Industrialization, Modernization, Sanskritisation. Social Control and Social Deviance: Norms, Folkways, Mores, Customs.

UNIT IV

Social Problems in India: Poverty, Unemployment, Mal-Nutrition, Communicable Diseases, Nepotism, Communal and Caste Issues, Honour Killing, Marital conflict, family violence, divorce, dowry death, suicide, aging, orphanhood, destitute, commercial sex work and human trafficking, person dependent to alcohol and Drug Abuse.

UNIT V

Problems of subaltern: Gender sensitivity, problems of subaltern groups: children-child abuse, juvenile delinquency, child labour, women, dalits, tribals, LGBTQ+. Environment Issues: Climate Change, protection of water bodies and endangered species. Remedies and Social work interventions.

TEXT BOOKS:

1. C.N. Shankar Rao, 2012, Sociology Principles of Sociology with an Introduction to Social Thought. S.Chand & Company Ltd, New Delhi.
2. Chris Yuill & Alastair Gibson, 2010: Sociology for Social Work: An Introduction SAGE Publications Ltd.
3. Vidya Bhushan & Sachdeva, 2006: Introduction to Sociology, Kitab Mahal, New Delhi.
4. Rao, C.N.S. 2002: Sociology: Primary Principles, Sultan Chand, Mumbai.
5. Anne Llewellyn, Lorraine Agu & David Mercer, 2014: Sociology for Social Workers, Polity.

REFERENCE BOOKS:

1. Antony Giddens. 2001. Sociology. Polity Press. Cambridge.
2. Richard T. Schaefer, 2011, Sociology A Brief Introduction, Tata Mcgraw – Hill Education Pvt ltd, New Delhi.
3. RoshniJain, An Introduction to Sociology, AITBS Publishers, India.
4. BhusanVidya & D.R.Sachdeva. 2005. An Introduction to Sociology. Kitab Mahal Publications. Allahabad.
5. Ram Ahuja, 2022: Social Problems in India, Rawat Publications.

I – M.S.W	DISASTER MANAGEMENT	EPSW25B
SEMESTER – II		HRS/WK : 3
ELECTIVE – II (B)		CREDIT : 3

OBJECTIVE:

To understand the concept of Disaster Management and Role of Social Worker in the field.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Beexposed to the disaster.

CO2: Learn the process of disaster management.

CO3: Understand the phases of disaster management.

CO4: Learnabout Disaster Management Authority and Acts.

CO5: Gain knowledge on Role of Social Workers and Voluntary Agencies in disaster management.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: EPSW25B					COURSE TITLE: DISASTER MANAGEMENT					HOURS: 3	CREDITS: 3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	4	2	3	4	4	4	4	3	3	3	3.4	
CO2	4	2	3	4	4	4	4	3	3	3	3.4	
CO3	4	2	3	4	4	4	4	3	3	3	3.4	
CO4	4	2	3	4	4	4	4	3	3	3	3.4	
CO5	5	3	4	5	5	5	5	4	4	4	4.4	
Mean Overall Score											3.6	

Result: The Score of this Course is 3.6(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Disaster: Meaning, Concept and related Concepts, Disaster, Risk, Hazard. Models of Disaster - Crunch Model and Release Model. Types and Effects of Disaster. Natural Disaster: Meteorological: Storm, Cyclone. Topological: Avalanche. Telluric: Earthquake. Manmade disasters. Effects: Physical, Social, Economic, Psychological, Spatial.

UNIT II

Participatory Assessment of Disaster Risk Steps - Preparation, Hazard Assessment, Vulnerability Assessment, Capacity Assessment, Key Informant Interviews and Action Planning.

UNIT III

Disaster Management and Phases: Pre-disaster: Prevention, Preparation, Education Vulnerability and Preparedness. Actual Disaster: Contingency, Short-Term and Long Term Plans. 4 Rs: Rescue, Relief, Recovery and Resettlement. Post disaster: Rehabilitation and Commemorations.

UNIT IV

Disaster Management Act 2005, National Disaster Management Authority and National Institute of Disaster Management. Functions of District, State and National Disaster Management Authority. Resources Mobilization, Working with Other Professionals, Working with Government and Voluntary Organizations.

UNIT V

Role of Social Workers and Voluntary Agencies in disaster both at the International and National level, Role of Media in disaster, Psycho Social Support and Mental Health Services, Case Studies on Bhopal Gas Tragedy 1984, Chernobyl Disaster 1986, Tsunami 2004, Thanae 2011, Vardha 2016, Ghaja 2018 Cyclones and Riots

TEXT BOOKS:

1. Damon Coppola. 2015. Introduction to International Disaster Management. 3rd Edition. Butterworth – Heinemann.
2. KsyamaSagarMeher, Disaster Management New Edition, Neeraj Publications.
3. Sulphey M.M. 2016. Disaster Management, Kindle Edition. New Delhi: PHI Learning Pvt. Ltd.
4. V. Jay Nichol, 2015, Environmental Studies and Disaster Management, Rawat Publication, New Delhi.
5. Varun Dutt Sharma, 2009, Environmental Education and Disaster Management, CBS Publication and distributors, New Delhi.

REFERENCE BOOKS:

1. Abarquez I and Murshed Z .2004. Community-Based Disaster Risk Management: Field Practitioners' Handbook. New Delhi: Asian Disaster Preparedness Center
2. Anderson M and Woodrow P. 1998. Rising from the Ashes: Development Strategies in Times of Disaster. London: ITDG Publishing,
3. Blaikie P, Cannon T, Davis I and Wisner B. 2004. At risk: Natural hazards, people's Vulnerability and Disaster. London: Routledge.
4. Carter I. 2002. Preparing for disaster, PILLARS Guide, Tearfund UK.
5. Carter I. 2003. Mobilizing the community, PILLARS Guide, Tearfund UK.
6. Heijmans A and Victoria L 2001. Citizenry-Based and Development-Oriented Disaster Response. Philippines: Centre for Disaster Preparedness.
7. Tearfund UK. 2004. Development and Risk Reduction in the Indian State of Andhra Pradesh: A case study

I – M.S.W	ENVIRONMENTAL SOCIAL WORK	EPSW25C
SEMESTER – II		HRS/WK : 3
ELECTIVE - II (C)		CREDIT : 3

OBJECTIVE:

To understand the concept of Environmental Social Work.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the disaster management.

CO2: Understand the natural resources.

CO3: Be equipped with knowledge about biodiversity.

CO4: Understand the environmental social issues.

CO5: Be exposed to the field based visit and cause and effects of environment.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: EPSW25C					COURSE TITLE : ENVIRONMENTAL SOCIAL WORK					HOURS: 3	CREDITS: 3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	5	4	4	5	5	5	4	4	4	4.5	
CO2	4	3	4	3	4	5	5	4	4	4	4	
CO3	3	3	3	4	4	4	3	3	4	4	3.5	
CO4	5	4	4	4	4	5	5	4	4	4	4.3	
CO5	5	4	4	4	5	5	4	5	4	4	4.4	
Mean Overall Score											4.14	

Result: The Score of this Course is 4.14(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERYHIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Introduction to Environment and Environmental Studies: Definition and Components of Environment, Relationship between the different components of Environment, Man and Environment relationship, Impact of technology on Environment, Environmental Degradation, Multidisciplinary nature of the Environment studies, its scope and importance in the present-day Education System.

UNIT II

Natural Resources: Renewable and non-renewable resources, Natural resources and associated problems, Forest resources, Water resources, Mineral resources, Food resources, Energy resources, Land resources, Role of an individual in conservation of natural resources, Equitable use of resources for sustainable lifestyles.

UNIT III

Biodiversity and its conservation Definition: genetic, species and ecosystem diversity, Bio-geographical classification of India, Value of biodiversity, Biodiversity at global, national and local levels, Threats to biodiversity, Conservation of biodiversity.

UNIT IV

Social Issues and the Environment from unsustainable to sustainable development, Urban problems and related to energy, Water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of people; its problems and concerns. Case studies, Climate change, global warming, Environmental Protection Act 1986, Public awareness Population growth, Role of Information Technology in Environment and Human Health. Role of Social Workers in Environmental Protection

UNIT V

Field Work: Visit to a local area to document Environmental assets – River or Forest or Hill or Mountain. Visit to a local polluted site – Urban or Rural or Industrial or Agricultural. Study of simple ecosystems – Pond, River, hills slopes.

TEXT BOOKS:

1. Ksyama Sagar Meher, Disaster Management New Edition, Neeraj Publications.
2. M.M. Sulphrey, Disaster management.
3. Mel gray , John coates and Tiani Hetherington, 2013 , Environmental social work, New York.
4. V. Jay Nichol, 2015, Environmental Studies and Disaster Management, Rawat Publication, New Delhi.
5. Varun Dutt Sharma, 2009, Environmental Education and Disaster Management, CBS Publication and distributors, New Delhi.

REFERENCE BOOKS:

1. Aravind Kumar. 2008. Environmental Resource Management. Daya Publishers. New Delhi:
2. Asthana. D.K. 2001. Environmental Problems and solutions. S. Chand publishers. New Delhi.
3. Benny Joseph. 2005. Environmental studies. Tata McGraw Hill Publishers. New Delhi:
4. Mohan I. 2002. Environmental Problems in 21st Century. Anmol Publishers. New Delhi.
5. Prabhakar V.K.2001. Environment and Agricultural Pollution. Encyclopedia of Environmental Pollution and Awareness in 21st Century Series. Anmol Publishers. New Delhi.
6. Purushotham Reddy. 2003. Environmental education. Neel Kamal Publishers, New Delhi.
7. Ravichand. M. 2007. Environmental Management. Concept Publishers. New Delhi.

I – M.S.W	CONCURRENT FIELD WORK PRACTICUM - II	20PSWF2
SEMESTER – II		HOURS : 10*
CORE PRACTICAL – II		CREDIT : 4

OBJECTIVE:

To practice the theoretical knowledge in the field of NGO/Hospital/Company settings.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed as a social worker in different settings.

CO2: Be exposed to different NGO, agency and company.

CO3: Be known to handle the client as a case worker.

CO4: Understand the group work process.

CO5: Organize Community organization programme.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 20PSWF2					COURSE TITLE: CONCURRENT FIELD WORK PRACTICUM - II					HOURS : 10	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	5	5	5	5	4	5	5	4.8	
CO2	5	4	5	5	5	5	4	4	5	5	4.7	
CO3	5	4	5	4	5	5	5	4	5	5	4.7	
CO4	4	3	5	4	5	5	5	3	5	5	4.4	
CO5	5	3	4	5	4	5	5	3	5	5	4.4	
Mean Overall Score											4.6	

Result: The Score of this Course is 4.6(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

The first year students during the second semester go for practice based social work for two days in a week and expected to spend a minimum of 10 hours per week in the field. The first year students are placed in villages or hospitals or schools or NGOs or government offices or counseling centers or welfare organizations or service organization for a semester.

During the placement they have to practice all the primary methods of social work. One has to complete 5 cases in casework, two group following all the stages of group work practice with at least 10 sessions which include the formation, naming, fixing of objectives, organizing programmes based on the objectives, evaluation, sociometry and sociogram. In the community students are expected to conduct one programme or solve an issue of the community following the principles of community organization and social action. The community organization programme is being organized by each student to promote extension activities towards different villages, institutions and organizations.

Every week the students write a report of their activities and submit to the concerned field work supervisor. The supervisor conducts individual and group conference every week regularly. At the end of the semester Viva- Voce is conducted by two examiners, one being an external examiner and the other would be the supervisor. 20 marks are being awarded by the internal faculty supervisor, 20 Marks are awarded by the Agency Supervisor and 60 marks are being awarded by the external examiner.

Marks Allotments

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Case Work, Group Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

* Number of hours spent for two days in a week by a student in the field.

I – M.S.W	LIFE SKILLS FOR SOCIAL WORK	19PSWS1
SEMESTER – II		HOURS: 1
SKILL		CREDIT: 1

OBJECTIVE:

To develop the skills which are needed for social work profession.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to their personal skills and development.

CO2: Be determined with the communication and writing skill.

CO3: Be capable of understanding human behavior.

CO4: Be equipped with the professional skills for their future development.

CO5: Learn the ethics and role of social worker.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 19PSWS1					COURSE TITLE: LIFE SKILLS FOR SOCIAL WORK					HOURS:1	CREDITS:1
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	4	3	4	4	4	5	4	4	4	4	4	
CO2	4	3	4	4	4	4	3	4	4	4	3.8	
CO3	4	4	3	4	4	4	5	4	4	4	4	
CO4	5	4	5	4	4	4	5	4	4	4	4.3	
CO5	4	3	4	3	4	4	3	3	4	3	3.5	
Mean Overall Score											3.92	

Result: The Score of this Course is 3.92(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

COMPONENTS:

1. Imparting practical knowledge on Life Skills which covers understanding self through a SWOT, Communication, Presentation skill, Interpersonal Skills such as Group Decision Making and Negotiation Skills.
2. Practical Exercises on Communication.
3. Conducting and Staging Two Street Plays in the Society or service and educational institutions by the students in group on relevant current issues of the society.
4. Awareness Creation Programme by the students in the Society or Service and educational institutions.

At the end of the semester Viva- Voce is conducted internally by two examiners by the faculty of the department. The students will be awarded with two credit.

Marks Allotments

Submission of Report	-	20 Marks
Presentation & Performance	-	20 Marks
Completion of Components	-	20 Marks
Skills Acquired	-	20 Marks
Learning Content	-	20 Marks

SPECIALISATION PAPER – I**COMMUNITY DEVELOPMENT SPECIALIZATION**

II – M.S.W	RURAL AND TRIBAL COMMUNITY DEVELOPMENT	19PSW31A
SEMESTER – III		HOURS : 5
CORE – IX		CREDIT : 4

OBJECTIVE:

To understand the concept of Rural and Tribal Community and its Development.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the rural community.

CO2: Be determined to the development of the community.

CO3: Be capable of understanding human behavior.

CO4: Be committed to work with the tribal community.

CO5: Be equipped with skills to work with the community.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19PSW31A					COURSE TITLE:RURAL AND TRIBAL COMMUNITY DEVELOPMENT					HOUR S: 5	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	3	4	5	5	4	4	4	4.3	
CO2	5	4	5	3	5	5	5	4	5	5	4.6	
CO3	5	4	5	3	5	5	5	5	4	5	4.6	
CO4	5	3	5	3	5	5	5	4	5	5	4.5	
CO5	5	4	5	3	4	5	5	5	5	4	4.5	
	Mean Overall Score										4.5	

Result: The Score of this Course is 4.5(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Rural Community: Meaning, Characteristics. Assessment of Needs and Problems in the Community. Participatory Rural Appraisal – Meaning, Characteristics, Principles, Tools, Steps and Limitations. Rural Organization and Rural Development. Rural Problems: Poverty, Illiteracy, Unemployment, Problems related to agriculture, Community Health.

UNIT II

Community Development: Meaning, Objectives, Principles, and Models; methods; Earlier experiments in rural developments - Sriniketan Experiment and Marthandam Experiment. Rural Extension, Millennium Development and Sustainable Development Goals. Rural Development Administration and Panchayat Raj Institutions (PRI), 73rd Amendment and its Salient Features, Features of Tamil Nadu Panchayat Act 1994. Rural development Agencies: DRDA & BDO.

UNIT III

Rural Development Programmes: A) Area Based - MP's & MLA's Area development programme. B) Target Based programmes: IRDP, TRYSEM, and MGNREGA. C) Welfare Programmes: ICDS, and Five year Plans and Strategies for Rural Development. Deen Dayal Antyodaya Yojana, National Rural Mission (NRuM), Sansad Adarsh Gram Yojana, Pradhan Mantri Awaas Yojana - Gramin (PMAY-G), Pradhan Mantri Suraksha Bima Yojana (PMSBY), Digital Infrastructure for Knowledge Sharing (DIKSHA), National Institute of Rural Development and Panchayati Raj (NIRDPR). Community Participation.

UNIT IV

Tribes: Definition, Concept, Characteristics of the Tribal Community; Nomadic and De- Notified Tribes; Regional Distribution of Tribes and Nehru's Panchasheel Principles of Tribes. Social System of Tribes: Socio economic conditions; Cultural and religious aspects; status of women: Status of Children; Tribal leadership and Political Participation -Local, State, and National levels.

UNIT V

Problems of Tribes: Child Marriage, Poverty, Ill-Health, Illiteracy, Exploitation and atrocities on tribes. Tribal Resettlement and Rehabilitation and its related problems. Tribal Movements and Tribal Revolt, Naxalpari Movement. Tribal Development Programmes: Tribal Development Policies, Tribal Area Development Programme; Tribal Sub-Plans, Need and Importance of Social Work practice in Tribal areas. Problems in implementation of tribal development programmes.

TEXT BOOKS:

1. Alison Gilchrist, Marilyn Taylor, Short Guide to Community Development.
2. Asha Ramagonda Patil, 2013, Community Organization and Development An Indian Perspective, PHI Learning Private Limited, Delhi.
3. Dr. P. V. Ramana Rao, Rural Development and Poverty Alleviation Programmes – NGNREGS, Aryan Publication, New Delhi.
4. Margaret Ledwith, 2006, Community Development – A Critical Approach, Rawat Publication Jaipur.
5. Samuel H. Taylor and Robert W. Roberts, 2013, Theory and Practice of Community Social Work, Rawat Publications, Jaipur.

REFERENCE BOOKS:

1. Christopher, A J. and Thomas William. 2006. Community Organization and Social Action. New Delhi: Himalaya Publishing House.
2. Dutt&Sundaram. 2013, Indian Economy, Sultan& Chand, New Delhi.
3. Kumar, Somesh. 2004. Participatory Method in Community Work. New Delhi: Himalaya Publisher.
4. Sachinanda and Purnendu, 2001 Fifty Years of Rural Development in India, Firma KLM Pvt Ltd., Kolkata.
5. Suresh Chandra, Anne Karen Trollope, 2015, Non-Governmental Organizations, Rawat Publications,
6. William, A. Thomas and A. J. Christopher. 2011. Rural Development – concept and recent approaches. Jaipur: Rawat Publications.

SPECIALISATION PAPER – I**HUMAN RESOURCE MANAGEMENT SPECIALIZATION**

II – M.S.W	HUMAN RESOURCE MANAGEMENT	20PSW31B
SEMESTER – III		HOURS : 5
CORE–IX		CREDIT : 4

OBJECTIVE:

To understand the concept of Human Resource Management and related concepts.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the concept of human resource management.

CO2: Be determined to the process of human resource planning.

CO3: Be equipped with the knowledge on training and development.

CO4: Be capable of handling with administrative structure.

CO5: Learn the human resource development.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 20PSW31B					COURSE TITLE: HUMAN RESOURCE MANAGEMENT					HOURS : 5	CREDITS : 4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	3	5	3	5	5	4	4	5	5	4.4	
CO2	5	3	5	3	5	5	4	4	5	5	4.4	
CO3	5	3	5	3	5	5	4	4	5	5	4.4	
CO4	5	3	5	3	5	5	4	4	5	5	4.4	
CO5	5	3	5	3	5	5	4	4	5	5	4.4	
Mean Overall Score											4.4	

Result: The Score of this Course is 4.4(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Human Resource Management: Concept, Scope, Objectives, Principles of HRM, Evolution, Approaches, Structure, Policies and Functions of Human Resource Management. Principles, Emerging trends of Competencies and Roles of HR Professionals.

UNIT II

Human Resource Planning: Concept, Objectives, Need, Process. Job Analysis: Uses, Content. Job Description, Job Specification. Recruitment: Meaning, Sources and Methods of Recruitment. Selection: Meaning, Steps, Application Blank, Psychological test, Interviews and Physical Examination. Talent Acquisition: Goals, Policies, Sources and Methods. Placement and Induction. Attrition and Retention. Compensation Management: Compensation structure, Factors influencing Compensation Plans and Policies. Incentive Schemes, Rewards and Recognition.

UNIT III

Training and Development: Meaning, Importance, Purpose, training need analysis, Types and Methods. Wages and Salary Administration: Definition, Objectives, Process of Wage Determination, Methods of Wage payment, Principles of Wages, Factors influencing Wage and Salary administration, Fringe Benefits. Concept of Wage and Salary – Wage Theories – Types of wages – wage differentials – Incentive Schemes.

UNIT IV

Performance Appraisal Systems; – Transfers and Promotions – Discharge, and Superannuation Dismissal, Key Result Areas (KRA), Key Performance Indicators (KPI). Types of performance potential appraisal, suspension and termination, Employee Retention and Separation: Attrition and Retention – Concept, - Employee benefit plans. Disciplinary procedures – Domestic enquiry – Grievance Procedure — Retirement: Exit Interview, Retirement Benefits – Voluntary Retirement Scheme. Occupational Health and Safety Assessment Series (OHSAS).

UNIT V

Contemporary trends in HRM: Corporate Social Responsibility, Benchmarking, Core Competency, Business Process Outsourcing (BPO), Business Process Reengineering (BPR), Competency Mapping, Balanced Score Card, Skill Matrix, People Capability Maturity Model (PCMM), Quality Circle, Total Quality Management (TQM) and Total Productivity Maintenance (TPM), Six Sigma and Lean Sigma, 5S Model, and Kaizen. International Organization for Standardization (ISO)

TEXT BOOKS:

1. BPP Learning Media, 2009, Human Resource Management, Viva Books, New Delhi.
2. Dr. S.S.Khanka, 2003 Human Resource Management text and cases S. Chand and Company Pvt. Ltd., New Delhi.
3. K. Aswathappa, 2008, Human Resource Management text and cases, Tata McGraw – Hill publishing company limited, New Delhi.
4. P. Subba Rao, 2016, Personnel and Human Resource Management Himalaya Publishing House, New Delhi.
5. VSP Rao, 2010, Human Resource Management text and cases, New Delhi: Excel Books.

REFERENCE BOOKS:

1. Andrew J. Dubrin, 2012 Essentials of Management, New York: Thomson Southwestern.
2. Bernadin John H, 2012, Human Resource Management, New York: McGraw Hill.
3. Ivancevich, 2012, Human Resource Management, New York: McGraw Hill.
4. Luis R.Gomez-Mejia, David B.Balkin, Robert L Cardy. 2012, Managing Human Resource. New Delhi: PHI Learning.
5. MonirTayeb. 2007, International Human Resource Management. New York: Oxford University Press.
6. Robert L. Mathis and John H. Jackson, 2007, Human Resource Management, New Delhi: Cengage Learning.
7. Uday Kumar Haldar, Juthika Sarkar.2012, Human Resource management. New Delhi: Oxford University Press.
8. Wayne Cascio, 2007, Managing Human Resource, New York: McGraw Hill.

SPECIALISATION PAPER – I**MEDICAL AND PSYCHIATRY SPECIALIZATION**

II – M.S.W	MEDICAL SOCIAL WORK	PSW31C
SEMESTER – III		HOURS : 5
CORE – IX		CREDIT : 4

OBJECTIVE:

To understand the concept of Medical social Work and role of Medical Social Worker.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the importance of medical social work.

CO2: Understand health care model and alternative system of health.

CO3: Be equipped with hospital administration.

CO4: Understand communicable and non-communicable disease.

CO5: Be applicable to work in hospital setting.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: PSW31C					COURSE TITLE: MEDICAL SOCIAL WORK					HOURS: S: 5	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	4	5	5	5	4	4	4	4.5	
CO2	4	4	4	3	4	4	4	4	5	4	4	
CO3	4	4	4	4	4	5	5	4	4	5	4.3	
CO4	5	4	5	5	4	5	5	4	4	5	4.6	
CO5	4	3	4	4	4	5	4	4	5	5	4.3	
Mean Overall Score											4.34	

Result: The Score of this Course is 4.34(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Medical Social Work: concept, Definition, Need of medical social work –Role and functions of medical social worker. The meaning of health, hygiene, illness and handicap: medicine through the ages; changing concept of health: concept of patient as a person. Health Indicators and Health Statistics. Historical development in Medical Social Work in the West and in India. Trends, Scope and Limitations of Medical Social Work practice in India. Health Indicator and Health Statistics

UNIT II

Health care models - medical health prevention and promotion model, integrative model and development model; holistic approach to health: alternative system of health – Ayurvedic, Yoga, Naturopathy, Unani, Sidha and Homeopathy (AYUSH) – Health Care delivery Systems, Tele-counseling. Overview of Human Anatomy.

UNIT III

Organization and Administration of Medical Social Work department in Hospital. Present practice and equipment of medical social work in various setting. a) Government Hospital, Corporate and Private, Specific Disease Hospitals, Specialized Clinics, Community Health Centers, Blood Banks, Eye Banks, Health Camps b) Schools for the Physically and Mentally challenged, Sheltered Workshops, Residential institutions for Physically and Mentally Challenged.

UNIT IV

Communicable and Non Communicable diseases - TB, STD, AIDS, Polio, SARS & Covid-19. Diarrhoeal diseases. Malaria, typhoid, leprosy, leptospirosis. Major non communicable diseases - cancer, diabetes, hypertension, and cardio disorders, neurological disorders, and asthma; physically challenged, Nutritional disorders, Occupational health problems, Women's health problems, Pediatric health problems and Geriatric health problems.

UNIT V

Medical social work practices in different in Settings. Outpatient unit, ICU, Maternity and Pediatric ward, STD and HIV clinic, Cardiology department, TB sanatorium and Cancer hospitals. Role of Medical Social Worker in Organ Transplantation and Palliative Care unit. Supportive services and networking for practice of medical social work, teamwork in medical setting. Skills and techniques used in medical social work practice. Fund Mobilizing in Medical Social Work.

TEXT BOOKS:

1. Danna R. Bodenheimer. 2015, Real World Clinical Social Work: Find Your Voice and Find Your Way, New Social Worker Press.
2. Park K (2009) Preventive and Social Medicine.
3. Goel S.L (2007) Health Education: Theory and Practice.
4. Tabish S.A (2001) Hospital and Health services administration.
5. Goel S.L (2004) Health Care Management and Administration
6. John Webb, 2002, Medical Social Work: the Reference Book Paperback, Trafford Publishing.
7. Judith L. M. McCoyd, Toba Schwaber Kerson. Social Work in Health Settings: Practice in Context.
8. K. Park. 2013, Park Text Book of Preventive and Social Medicine, M/S BanarsidasBhanot Publishers.
9. Sarah Gehlert, Teri Browne, Handbook of Health Social Work.
10. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications New Delhi.

REFERENCE BOOKS:

1. Bradshaw & Bradshaw, 2004 Health Policy for Health Care Professional, Sage Publications, New Delhi.
2. Goel S.L (2004) Health Care Management and Administration.
3. Goel S.L (2007) Health Education: Theory and Practice.
4. Pondicherry Aids Control Society, 2007 Pregnancy, Byword books Private Limited.
5. Sarah Ghelert, 2006 Hand book of Health Social Work, John Wiley & Co., London
6. Sirohi, Anand, 2005 Modern Perspectives in Social Work, Dominant Publishers, New Delhi.
7. Tabish S.A (2001) Hospital and Health services administration.

SPECIALISATION PAPER - II**COMMUNITY DEVELOPMENT SPECIALIZATION**

II – M.S.W	URBAN COMMUNITY DEVELOPMENT	19PSW32A
SEMESTER – III		HOURS : 5
CORE - X		CREDIT : 4

OBJECTIVE:

To understand the concept of Urban Community Development and development scheme.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the urban communities.

CO2: Be aware of slum legislation.

CO3: Understand urban community development.

CO4: Be capable of handling urban administrative structure.

CO5: Learn the role of stake holders in urban community development.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19PSW32A					COURSE TITLE: URBAN COMMUNITY DEVELOPMENT					HOURS: S: 5	CREDITS: S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	3	4	5	5	4	4	4	4.3	
CO2	5	4	5	3	5	5	5	4	5	5	4.6	
CO3	5	4	5	3	5	5	5	5	4	5	4.6	
CO4	5	3	5	3	5	5	5	4	5	5	4.5	
CO5	5	4	5	3	4	5	5	5	5	4	4.5	
Mean Overall Score											4.5	

Result: The Score of this Course is 4.5(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Urbanization: Concept, Characteristics and Theories. Related Concepts: Corporation, Municipality, Town, City, Metropolis, Megapolis, Suburbs, Satellite Town, Smart Cities, Hinterland, Agglomeration, and Urbanism. Urbanization and Social Problems Urban Problems: Environmental issues, Migration, Informal Sectors, Domestic Workers, Crime, Accidents, Commercial Sex Work, Drug Addiction, Housing, Human Trafficking, Juvenile Delinquency, Urban Traffic Problems and Suicide.

UNIT II

Slums: Definition, Causes, Characteristics, Socio-Psychological Issues of Slum Dwellers, Effect of Industrialization and Globalization on Slum. Displacement and Rehabilitation. Tamil Nadu Urban Habitat Development Board and Resettlement and Rehabilitation (R&R) Programmes. Tamil Nadu Slum Area (Clearance and Improvement) Act 1971. National Slum Development Programme. Urban Development Policy, Town planning and Rules of town planning. Urban Services and Urban Deficiencies, Housing and Urban Development Corporation (HUDCO).

UNIT III

Urban Community Development: Meaning, Scope. Early Development Interventions: SPARK Mumbai, People Project of Action Aid, Oxfam, Unorganized Workers' Federation, National Domestic Workers Movement, National Slum Dwellers Federation. Welfare Extension Projects of Central Social Welfare Board. Problems in implementation of Urban Community Development Programmes.

UNIT IV

Urban Municipal Administration- Structure, Composition, Functions and Current issues. Democratic functioning of Urban local bodies, 74th Constitutional Amendment, Governance and Citizen's Participation. E-Governance in Urban Development, National Urban Information System (NUIS).

UNIT V

Urban Community Development Programme: Five Year Plans and Urban Development. Major National Missions: JNNURM (AMRUT), Housing for all 2022. Institutions and Government departments for Urban Development: CMDA, TNHB, CMWSSB. Urban Training Institutions: TNIUS, NIUA. Role and skills of Community Development Worker in Urban Community Development. Mechanisms to address Urban Social Concerns: 108 Service, Women Helpline, Child helpline.

TEXT BOOKS:

1. Asha Ramagonda Patil, 2013, Community Organization and Development in Social Work an Indian Perspective, PH Learning Private Ltd Delhi.
2. Dr. P. V. Ramana Rao, 2018 Rural Development and Poverty Alleviation Programmes, Aryan Publications New Delhi.
3. Jacob Z. Thudipara, 2017, Urban community development second edition, Rawat Publications, New Delhi.
4. Margaret Ledwith, 2006, Community Development a Critical Approach, Rawat Publications, Jaipur.
5. Samuel H Taylor, 2017, Theory and Practice of Community in Social Work, Rawat Publications, Jaipur.

6. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications New Delhi.

REFERENCE BOOKS:

1. Ashish Bose, 2001 India's Urbanization, Institute of Economic Growth, McGraw Hill, New Delhi.
2. Bala, 2000. Trends in Urbanization in India, Patel enterprises, New Delhi
3. Bhattacharya B, 2000 Urban Development in India, Shree Publishing House, New Delhi.
4. Census of India Government of India Publication, 2011.
5. H.U.Bijlani, 2013, Urban Problem, Centre for Urban Studies, Lipa, New Delhi
6. Harper Collins, 2014, Transforming our Cities.
7. Mitra. Urbanization and Urban System in India, Oxford University Press, New Delhi.

SPECIALISATION PAPER – II

HUMAN RESOURCE MANAGEMENT SPECIALIZATION

II – M.S.W	LABOUR LEGISLATIONS AND LABOUR WELFARE	20PSW32B
SEMESTER – III		HRS/WK : 5
CORE – X		CREDIT : 4

OBJECTIVE:

To get knowledge on Labour Legislations and Labour Welfare Related Acts.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Understand labour system.

CO2: Be aware of working environment and legislations.

CO3: Learn about the labour classification.

CO4: Understand the wage legislation.

CO5: Learn about the social legislation.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 20PSW32B					COURSE TITLE: LABOUR LEGISLATIONS AND LABOUR WELFARE					HOURS :5	CREDITS:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	3	5	4	5	5	4	4	4	5	4.4	
CO2	5	4	4	3	5	5	4	3	4	4	4.1	
CO3	5	3	5	4	5	5	4	4	4	5	4.4	
CO4	5	4	4	3	5	5	4	3	4	4	4.1	
CO5	4	4	4	3	4	4	2	4	4	4	3.7	
Mean Overall Score											4.14	

Result: The Score of this Course is 4.14(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Labour- Concept, Labour Legislation, Concept, Objectives, Importance and Principles. Industrialization – Labourers at various occupations. Indian Labour force, Classification and composition. Characteristics of Indian Labour - Labour Problems in India - Labour Welfare: Concept, need, objectives, principles, theories, scope, limitations. Classification Administration of labour, - Central and State level . Labour Welfare Officer :Qualifications, Roles and Responsibilities.

UNIT II

Legislations relating to working condition and safety: The Factories Act 1948, The Mines Act 1952, The Motor Transport Workmen Act 1961, Plantation Labour Act 1951, TamilNadu Shops and Establishment Act 1947.c.

UNIT III

Contract Labour (Regulations and Abolition) Act 1970, The Apprentice Act 1961, Tamilnadu Industrial Establishment (National and Festival Holidays) Act 1958 and the Amendment of this Act, 2017, Labour Code on Industrial Relations Bill 2019. Inter-state Migrant Workman (Regulations of Employment and Condition of Service) Act -1979.

UNIT IV

Wage Legislations: Workmen's Compensation Act 1923, Payment of wages Amendment Act 2017, Minimum wages Act 1948, Payment of Bonus Act 1965, Equal Remuneration Act 1976. The Employment Exchange (Compulsory Notification of Vacancies) Act 1959.

UNIT V

Social Security Legislations : Employees State Insurance Act 1948, Employees Provident Fund Act 1952, Payment of Gratuity Act 1972, Maternity benefit Act 1961. The Tamil Nadu Industrial Establishments (Conferment of Permanent Status to Workmen) Act, 1981.

TEXT BOOKS:

1. Punekar Deodhar Sankaran, 1992, Labour Welfare Trade Unionism and Industrial Relations, Himalaya Publishing House.
2. RC Saxena, K Nath, 1996, Labour Problems and Social Welfare, Co Meeru Publications.
3. RC Saxena. 1998. Labour Relations in India. Prakashan Kendra.
4. SC Srivastava, 1995, Industrial Relations and Labour Laws, Vikas Publishing House, Pvt Ltd.
5. ShamaVivek. 2014. UGC NET Tutor Social Work, Arihant Publications New Delhi.

REFERENCE BOOKS::

1. Babu Sharath and Rashmi Shetty. 2007. Social Justice and Labour Jurisprudence. New Delhi: SAGE Publication.
2. Kapoor, N.D. 1993. Elements of Industrial Law. New Delhi: Sultan Chand & Sons.
3. Kapoor, N.D. 1995. Hand Book of Industrial Law. New Delhi: Sultan chand & Company.
4. Ramaswamy, E.A. & Uma Ramaswamy. 1981. Industry and Labour: An Introduction New Delhi: Oxford University Press.
5. Vaidyanathan, S. 1986. Factory Laws Applicable in Tamilnadu, Vols: 1,2,3, Madras:Madras Bood Agency.

SPECIALISATION PAPER II

MEDICAL AND PSYCHIATRY SPECIALIZATION

II – M.S.W	MENTAL HEALTH AND SOCIAL WORK	20PSW32C
SEMESTER – III		HOURS : 5
CORE – X		CREDIT : 4

OBJECTIVE:

To understand the concept of mental health and kinds of disorders.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the mental health.

CO2: Learn about stress and coping mechanism.

CO3: Gain knowledge about psychiatric assessment.

CO4: Understand the neurotic and psychotic disorder.

CO5: Learn about the childhood disorder.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: 20PSW32C					COURSE TITLE: MENTAL HEALTH AND SOCIAL WORK					HOUR S:5	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	4	4	5	4	5	4	4	5	4	5	4.4	
CO2	4	4	4	5	4	4	5	4	4	4	4.2	
CO3	5	4	5	4	4	5	5	4	4	4	4.4	
CO4	4	4	4	3	4	5	5	4	4	4	4.1	
CO5	5	4	5	4	5	5	5	4	4	5	4.6	
Mean Overall Score											4.34	

Result: The Score of this Course is 4.34(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Mental Health: Meaning, Definition. History and Scope of Psychiatric Social Work; Changing Perspective of Psychiatric Social Work; 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.

UNIT II

Stress and Coping: Stress and Mental Health Factors influencing Stress among Children, Adolescents, Women, Workers, Elderly and related to Physical Illness, Coping with Stress, Emotions and Crisis.

UNIT III

Psychiatric Assessment and Intervention: History Taking and Mental Status Examination, Psycho Social and Multidimensional Assessment of Mental Disorders in Psychiatric Social work. Common Mental Disorders - Symptoms, Causes and Treatment of Neurosis, Psychosis, Psycho Physiological Disorders, Personality Disorders. 2017 Amendment of Mental Health Act 1987.

UNIT IV

Neurotic and Psychotic Disorder: Anxiety, Phobia, Obsessive Compulsive Disorder, Posttraumatic Stress Disorder and Psycho Somatic Disorder. Alcoholism, Drug abuse and Suicide. Mental Retardation and Alzheimer's disease, sexual deviation, epilepsy, culture bound syndrome. Social Media Addiction and Psychological Identity.

UNIT V

Childhood Disorders: Autism and Infantile Schizophrenia, Attention Deficit and Hyperactivity Disorder, Behaviour and Habit Disorder, Disorders associated with Eating, Speech and Sleep, Scholastic backwardness, Identity Crisis. National Mental Health Programmes.

TEXT BOOKS:

1. Colin Pritchard, Mental Health Social Work.
2. Jacqueline Corcoran, Mental Health in Social Work: A Casebook on Diagnosis and Strengths Based Assessment (DSM 5 Update) with Pearson e Text -- Access Card Package,
3. K. Park, 2013, Park Text Book of Preventive and Social Medicine, M/S Banarsidas Bhanot Publishers.
4. Niraj Ahuja, 2011, A Text Book of Psychiatry, Jaypee Brothers Medical Publishers (pvt) Ltd.
5. Randy J. Larsen, David M. Buss, 2011, Personality Psychology, Tata McGraw – Hill Edition.

REFERENCE BOOKS:

1. Abelin, T. Brzenski and V.D. Car stairs. Measurement in Health Promotion and Protection. Copenhagen: WHO.
2. Bhugra, Gopinath, Vikram Patel, 2005 Handbook of Psychiatry- A South Asian Perspective. Byword Viva Publishers Pvt.Ltd., Mumbai
3. Francis, C. M. 1991. Promotion of Mental Health with Community Participation. Kerala: The Center for Health Care Research and Education.
4. Jay, Pee. 1994. Diagnostic and Statistical Manual of Mental Disorders (DSM IV). New Delhi: Oxford Press.
5. Kappur. M. Sheppard. Child Mental Health-Proceedings of the Indo-US symposium.

6. Mane P. &Gandevia K. 1994. Mental Health in India Issues and Concerns; Tata Institute of Social Sciences, Mumbai.
7. WHO, 2004 The ICD-10 Classification of Mental and Behavioral Disorders, Diagnostic Criteria for Research, AITBS Publishers and Distributors, Delhi
8. World Health Organization. Geneva. 1992. The ICD 10 Classification of Mental and Behavioral disorders, Clinical Description and Diagnostic Guidelines; Oxford University. Press

II – M.S.W	HUMAN RIGHTS	ECHR901S
SEMESTER – III		HRS / WEEK : 2
INTERDISCIPLINARY		CREDIT : 2

OBJECTIVE:

To get knowledge on human rights.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Gain Knowledge about Emergence of Human Rights.

CO2: Knowledge relating to various Declaration on Human Rights.

CO3: To know the various Covenants for protecting Human Rights.

CO4: To know the various Covenants for protecting Human Rights.

CO5: To Evaluate Certain issues on Human Rights.

UNIT I

Historical Development - Origin - Meaning – Nature – Scope and Classification of Human Rights – Theories of Human Rights.

UNIT II

Universal Declaration of Human Rights -1948- Geneva Convention of 1949 - International Human Rights in Domestic Court.

UNIT III

International Covenant on Civil and Political Rights 1966 – International Covenant on Economic, Social and Cultural Rights – International Covenant Supervision and Punishment of the Crime of Apartheid.

UNIT IV

Women's Rights - Women Conference - CEDAW - Protection of Women from Domestic Violence Act - 2005 – Present Position of Women in India – Child Labour - Legislation to Protect Child Labour in India – Child Abuse – Problem of Refugees – Capital Punishment.

UNIT V

The Protection of Human Rights Act. 1993 – National Human Rights Commission – State Human Rights Commission – Minorities Rights Commission – National Commission for Women.

TEXT BOOKS:

1. Sharma, N.R., Human Rights in the World, Jaipur, 1999.

REFERENCE BOOKS:

1. Adil-ul Yasin and Archana Upadhyay, Human Rights, New Delhi, Akansha Publishers, 2004.
2. AnuSaksena, Human Rights and Child Labour in Indian Industries, Delhi, Shipra Co-op Book Society, 1998.
3. RajindarSachar, Huma Rights: Perspectives and Challenges, New Delhi, Gyan Publishing House, 2005.
4. Kaarthikeyan D.R., Human Rights: Problems and Solutions, New Delhi, Gyan Publishing, House, 2004.
5. Misha, R.C., Governance of Human Rights: Challenges in the Age of Globalization, Delhi, Publications, 1999.

QUESTION PAPER PATTERN

Max Marks – 75 Time - 3 Hours

Section – A Choose the Correct Answer (10 x 1 = 10 Marks)

Section – B Answer any Five of the following (5 X 5 = 25 Marks)

Section – C Write an Essay on any Two of the following (2 x 20 = 40 Marks)

II – M.S.W	COMPUTER APPLICATION IN SOCIAL WORK	19EPS33A
SEMESTER – III		HOURS : 4
ELECTIVE – III (A)		CREDIT : 3

OBJECTIVE:

To understand the basics of computer, its applications and SPSS in the field of Social Work research.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Be exposed to the fundamentals of computer.

CO2: Gain Knowledge on office applications.

CO3: Understand the usage of SPSS in the field of Social Work research.

CO4: Be capable of creating data file and to develop practical

knowledge. **CO5:** Be aware of applications of Statistical Calculation.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19EPS33A					COURSE TITLE: COMPUTER APPLICATION IN SOCIAL WORK					HOUR S:4	CREDIT S:3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	3	5	5	3	5	2	4	3	4	3.9	
CO2	5	3	5	5	3	5	2	5	3	4	4	
CO3	5	3	5	5	3	5	2	5	3	4	4	
CO4	5	3	5	5	3	5	2	4	3	4	3.9	
CO5	5	3	5	5	3	5	2	4	3	4	3.9	
	Mean Overall Score										3.94	

Result: The Score of this Course is 3.94(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Fundamentals of a Computer: Meaning, Characteristics, basic operations – input, storage, processing, output, ALU and control. Devices of a computer hardware, software, types of software – application, system, utility. Meaning of programme. Computer language – machine, assembly high level. Assembler, interpreter and compiler, operating system.

UNIT II

Office Applications: MS Office (MS Word, MS Excel or Spreadsheets, PowerPoint). Internet and browsing E-Mail, Use of Internet in Research. Practical – creating document, excel, power point and mail merge.

UNIT III

Statistical Package for Social Sciences: Basics of Statistical analysis – population, sample, case, case number, variable, variable level, types of variable – numeric, string, alphanumeric, system missing value, user defined missing value, code book and code sheet, types of statistics, statistical tests, types of analysis. Structure of SPSS windows.

UNIT IV

Creating data file, syntax file and output file: Defining data, Variable name, Variable label Values, value labels. Editing data file, adding cases, adding variables, saving files, retrieving data files, printing data file. Recoding of data. Practical – creating data file, syntax file, Output file, Recoding of Data. Exporting output file to Ms-Word.

UNIT V

Analysis of data: Univariate and Bivariate Analysis, charts and diagrams. Editing of table and charts, exporting tables and charts in Word document. Interpretation of data, Application of Statistical Calculation and Test, Measurement of Central Tendency, Dispersion, ‘t’ test, Chi-square Test. Application of Correlation, Regression. ANOVA. Practical – Creating frequency table, Cross tables, Charts, Statistical tests – Chi square test, t test.

TEXT BOOKS:

1. Alexis Leon, 2013, Computer Applications in Business, Vijay Nicole imprints Pvt Ltd.
2. Computer Literacy Programme (CLP), 2011. Vijay Nicole Imprints Private Ltd.
3. Saxena, Sanjay. 1999. A First Course in Computers. Vikas Publishing House Pvt. Ltd. New Delhi.
4. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications New Delhi.
5. V. Rajaraman, 2001, Fundamentals of Computers, Eastern Economy Edition.

REFERENCE BOOKS:

1. Foster, J.J. 1998. Data Analysis Using SPSS for Windows. Sage Publications Ltd. London.
2. Kelle, V. 1998. Computer Aided Qualitative Data Analysis. Theory, Methods and Practice. Sage Publications Ltd. London.
3. Mansfield, Ron. 1997. The Compact Guide to Microsoft Office Professional. Sybex Computer Books Inc. USA.
4. Saxena, Sanjay. 1999. A First Course in Computers. Vikas Publishing House Pvt. Ltd. New Delhi.
5. Sundarajan, K. 1998. Internet. Kandadasan Pathippagam. Chennai.
6. Taxali, R.K. 1998. PC Software for Windows Made Simple. Tata MC Graw-Hill Publishing Company Ltd. New Delhi.

II – M.S.W	CORPORATE SOCIAL RESPONSIBILITY	19EPS33B
SEMESTER –III		HRS/WK : 4
ELECTIVE – III (B)		CREDITS: 3

OBJECTIVE:

To understand the concept of corporate social responsibility.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the concept of CSR.

CO2: Be exposed to the CSR implementation.

CO3: Understand CSR in different settings.

CO4: Learn the models in CSR.

CO5: Gain the CSR guidelines.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19EPS33B					COURSE TITLE: CORPORATE SOCIAL RESPONSIBILITY					HOURS: 4	CREDITS: 3
	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)						
COURSE OUTCOMES (CO)	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	4	4	4	4	3	4	4	4	4	
CO2	5	4	5	4	4	5	4	4	5	4	4.4	
CO3	5	4	5	4	5	5	4	4	4	4	4.4	
CO4	5	4	4	4	4	5	4	5	4	4	4.3	
CO5	5	4	5	5	4	5	3	4	4	4	4.3	
Mean Overall Score											4.28	

Result: The Score of this Course is 4.28(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Definition, Concepts, Overview of Corporate Social Responsibility. Needs to be Social responsibility; Corporate Social Responsibility in Indian context and International; Business ethics and Corporate Social Responsibility; Phases of CSR. Legal Provisions and specification on CSR, Companies Act; Difference between CSR and CSI (Corporate Social Initiatives).

UNIT II

Skills and Techniques in CSR: Corporate Community Participation and Role and Skills of Social Worker in CSR; Corporate Perspective on building successful partnership; Tools and Techniques; Roles and skills: Advocacy, Administration, Marketing, Mediating, Budgeting, Organizing, Documenting, Presenting, Public speaking, Teaching, Supervising and Reporting.

UNIT III

Carroll's model, Prakash Seithi's model, Keith Devis model, and Carroll model, The 3 C-SR model, The 3 C model

UNIT IV

CSR in notable industries Ashok Leyland, Hyundai Foundation, Srinivasan Service Trust, Titan Foundation, Tata Sustainability Group, A. M. M. Foundation, CPCL, Wipro Foundation, Infosys Foundation, NIIT.

UNIT V

UN Global Compact – UNDP, Global Reporting Initiative. The Tata Code for Community Initiatives, The CSR Guidelines for Central Public Sector Undertakings by the Ministry of Corporate Affairs, The Company's Act 2013.

TEXT BOOKS:

1. C. A Kamal Garg, 2014, Corporate Social Responsibility, Bharat Law House Private Ltd.
2. David Vogel, The Market for Virtue: The Potential and Limits of Corporate Social Responsibility.
3. K.N. Ajith. Corporate & Social responsibility.
4. Madhumita Chatterji, Corporate Social Responsibility.
5. Matthew Hirschland, 2007, Corporate Social Responsibility and shaping of global public policy (Political Evolution and Institutional Change), Palgrave Macmillan.

REFERENCE BOOKS:

1. An Analytical Review of 'CSR' Spending in India" Socio Research and Reform Foundation (SRRF), Delhi, 2013.
2. Avinash K. Dixit and Barry. J. Nalebuff (2010) Thinking Strategically, The competitive Edge
3. Baxi C.V. & Rupamanjari S. R. (2012). Corporate Social Responsibility, A Study of CSR practices in Indian Industry. Vikas Publishing House Pvt.ltd, New Delhi.
4. Benn & Bolton, 2011. Key concepts in corporate social responsibility. Australia: Sage Publications Ltd.
5. Burchell Jon (Ed) 2008. The Corporate Social Responsibility Reader, Routledge, New York
6. Reddy, Sumati and Stefan Seuring. (2004). Corporate Social Responsibility: Sustainable Supply Chains. Hyderabad: ICFAI University Press.
7. Werther, W. B. & Chandler, D. (2011). Strategic corporate social responsibility. Thousand Oaks, CA: Sage

YEAR – II	MANAGEMENT OF ORGANIZATIONS	CODE: 22EPSW33C
SEMESTER –III		HRS/WEEK : 4
ELECTIVE – III (C)		CREDITS: 3

OBJECTIVE:

To understand the concept related to Management of Organizations at the different levels.

Course Outcomes:

After completing this course, students will:

CO1: Understand the concept of Fundamentals of Management.

CO2: Be exposed to the Evolution of Management Thought.

CO3: Understand Basics of Organization.

CO4: Learn the basic skills of management.

CO5: Gain the knowledge on empowering and personal skills.

SEMESTER III	COURSE CODE: 22EPSW33C					COURSE TITLE: MANAGEMENT OF ORGANIZATIONS					HOURS:4	CREDITS:3
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	5	4	4	4	4	4	3	4	4	4	4	
CO2	5	4	5	4	4	5	4	4	5	4	4.4	
CO3	5	4	5	4	5	5	4	4	4	4	4.4	
CO4	5	4	4	4	4	5	4	5	4	4	4.3	
CO5	5	4	5	5	4	5	3	4	4	4	4.3	
Mean Overall Score											4.28	

Result: The Score of this Course is 4.28(Very High)

Association Scale	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT -I

Management: Definition, Nature, Functions (Planning, Organizing, Staffing, Directing, Leading, Controlling and Coordination). Levels of Management - Top, Middle and low level. 7Ms of management (Materials, Manpower, Machinery, Marketing, Mix, Motivations and Money). Managerial skills: Conceptual Technical and Human Re

UNIT-II

Concepts and Key Contributions - Classical Theory: Administrative Management (Henri Fayol). Bureaucratic Theory (Max Weber). Neo Classical Theory: Human Relations Approach (Elton Mayo), Behavioural Approach (Chris Argris, Douglas McGregor, M P Follet, Abraham Maslow) New Management theory: System Approach (open/closed/synergy/entropy), Management Science Approach, Contingency Approach. HR Analytical. Knowledge Management.

UNIT III

Organization: Concept, Elements of Organization. Organizational Objectives, Vision and Mission Organization Structure: Concept and Advantages and Disadvantages of Organization Structure by function, by product, by geographical market; network organizations and virtual organizations Business Organizations: Concept and Operational Areas (Production Management, Human resource Management, Marketing Management and Advertising Management, Materials Management. Management Information System (MIS). Employees engagement and Green HR.

UNIT IV

Introduction to skills & personal skills Importance of competent managers, developing self-awareness on the issues of emotional intelligence, self-learning styles, values, attitude towards change, Training and Development. Team building & team work. Skill development and skill application.

UNIT V

Empowerment: Meaning of empowerment, dimensions of empowerment. Problem solving, creativity, innovation, conceptual blocks. Personal interview management. Building relationship Skills for developing positive interpersonal communication, supportive communication. Coaching and employees counseling, defensiveness and disconfirmation.

TEXT BOOKS

1. Samvel.C. Certo And S. Trevis Certo Modern Management Prentice Hall of India Pvt. Lad 2007
2. P. Subba Rao, Management and organization behavior (text and case) Himalaya publishing 2017
3. Principles of Management, S. P. Rajagopal Sin John R. Schermerhorn Jr. Wiley India Pvt Lad, New Delhi 2005.
4. Harold Koontz, Heinz Wellrich and Ramachandra Aryasie, "Principles of Management", Tata McGraw Hill Publishing Co Lad, New Delhi-2004
5. Prasad L.M., Organisational Behaviour, 4th edition, New Delhi, Sultan Chand and Sons Publisher, 2004

REFERENCE BOOKS

1. John R. Schermerhom.Jr. Willy India Pvt Ltd, New Delhi 2005. 5. SherlekarS.A,Heredia R.A. et al, "Industrial Organization and Management", Himalaya Publishing House, Bombay, 1979,
2. Gupta C.B., "Organisation and Management" Sultan Chand &Sons, New Delhi, 1998. 7. Joseph L. Massie, "Essentials of Management", Prentice Hall of India Ltd, New Delhi, 1973.
3. Harold Koontz, Heinz Wellrich and Ramachandra Aryasir, "Principles of Management", Tata McGraw Hill Publishing Co Lad, New Delhi-2004
4. Robin Lall 2004 The Dynamics of NGO's New Delhi, Dominant Publishers.
5. Sooryamoorthy R and Gangrade K.D 2006 NGOs in India-A cross Sectional study New Delhi: Rawat.

I – M.S.W	CONCURRENT FIELD WORK PRACTICUM – III	19PSWF3
SEMESTER – III		HRS/WK: 14*
CORE PRACTICAL – III		CREDIT: 4

OBJECTIVE:

To get exposure in the field of professional settings based on the specialization.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Gain social workers professional knowledge on different settings.

CO2: Learn about human resource management.

CO3: Be exposed on role of medical social worker in hospital settings.

CO4: Understand the community problem.

CO5: Organize group work and community organization programme.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19PSWF3					COURSE TITLE: CONCURRENT FIELD WORK PRACTICUM – III					HOURS:14	CREDITS:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	3	5	5	4	3	5	5	4.4	
CO2	5	4	5	4	5	5	5	4	5	5	4.7	
CO3	5	4	5	4	5	5	5	4	5	5	4.7	
CO4	5	4	5	4	5	5	5	4	5	5	4.7	
CO5	5	3	5	4	5	5	5	4	5	5	4.6	
Mean Overall Score											4.62	

Result: The Score of this Course is 4.62(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

The second year students during the third semester go for practice based social work for two days in a week and expected to spend a minimum of 10 hours per week in the field. The students are placed in villages or hospitals or schools or NGOs or government offices or counseling centers or

welfare organizations or service organization or industries according to their field of specialization for a semester.

During the placement they have to practice all the primary and secondary methods of social work in their respective fields of specialization. During the placement the students are expected to learn about the vision, mission, philosophy, administration, strategies, programmes, activities, achievements and also involve with the activities of the organization to whatever extent possible.

The students also undertake any assignments given to them by the agency, they may also undertake any research for the organization. The community organization programme is being organized by each student to promote extension activities towards different villages, institutions and organizations.

Every week the students write a report of their activities and submit to the concerned field work supervisor. The supervisor conducts individual and group conference every week regularly. At the end of the semester Viva- Voce is conducted by two examiners, one being an external examiner and the other would be the supervisor. 20 marks are being awarded by the internal faculty supervisor, 20 Marks are awarded by the Agency Supervisor and 60 marks are being awarded by the external examiner.

* Number of hours spent for two days in a week by a student in the field.

Marks Allotments

Specialization - Community Development

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Group Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

Specialization – Human Resource Management

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Role of Human Resource Management Department, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

Specialization - Medical and Psychiatric

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Case Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

II – M.S.W	NATIONAL SOCIAL WORK PERSPECTIVES – AN ACADEMIC VISIT	19PSWE2
SEMESTER – III		HRS: NIL
EXTENSION – II		CREDIT: 2

National Social Work Perspectives – An Academic Visit is a part and parcel of the field work to training in social work education. It is compulsory for final year students as a part of social work training. Students will be visiting various reputed organization at the national level related to their field of Specialization and understand the functioning of such successful organizations. The students need to prepare the report of the Academic Visit and present it during the Viva. Vice-voce examination is conducted internally for 100 marks. After the Internal Viva-voce, the students are awarded with 2 credits.

OBJECTIVE:

To get national level exposure by visiting different Social Work Settings.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Experience group dynamics.

CO2: Be exposed to the various socio-cultural patterns.

CO3: Understand the functioning of successful organizations.

CO4: Gain awareness on implementation and execution of asks.

CO5: Be exposed to different atmosphere.

SEMESTER III	COURSE CODE: 19PSWE2					COURSE TITLE: NATIONAL SOCIAL WORK PERSPECTIVES – AN ACADEMIC VISIT					HOURS : Nil	CREDIT S:2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	3	4	3	5	5	5	4	5	5	4.4	
CO2	4	3	4	3	4	4	4	3	3	4	3.6	
CO3	5	3	4	3	4	4	4	3	4	4	3.8	
CO4	5	5	5	5	5	5	4	4	5	5	4.8	
CO5	5	3	4	3	5	5	5	4	5	5	4.4	
Mean Overall Score											4.2	

Result: The Score of this Course is 4.2(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

Academic Visit Process

The students are involved in the entire planning of the Academic Visit- beginning from the selection of the places for visit, getting prior permission, drafting the schedule for the entire visits & arranging for travel and accommodation. Two faculties would be in charge for the Visit. They would be guiding the students in the whole process of planning and execution and also accompanying them for the visits.

Tasks to be carried out

1. Actively take part in the process of planning for the Academic Visit.
2. Formation of committees, allocation and execution of concerned responsibilities.
3. Respecting individuality and accommodating oneself for the cause of the group.
4. Implementing the suggestions and guidance of the Faculty.

Skills to be acquired

Skills in Planning, Organizing, Execution, Group Living, collateral contacting, Rapport Building, Budgeting, Accounting, Time Management, Leadership etc.

Marks Allotments

Submission of Report	-	20 Marks
Presentation & Performance	-	20 Marks
Completion of Components	-	20 Marks
Skills Acquired	-	20 Marks
Learning Content	-	20 Marks

II – M.S.W	CHILD WELFARE AND SOCIAL WORK	19SPS34A
SEMESTER –III		HOURS: NIL
SELF STUDY– I (A)		CREDITS: 2

OBJECTIVE:

To recognize child welfare concepts and welfare services.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand basic theoretical knowledge on child welfare concepts and Institution working for child Welfare

CO2: Equip them with the knowledge on welfare services of children

CO3: Be enabled to work in the different field based legislations related to children

CO 4: Create knowledge on various issues related to children

CO5: Address the problems of women and children

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34A					COURSE TITLE: CHILD WELFARE AND SOCIAL WORK					HOURS: Nil	CREDITS: 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	5	4	5	5	4	4	5	4.6	
CO2	5	4	5	4	4	5	5	4	4	5	4.5	
CO3	5	4	5	4	4	5	5	4	4	5	4.5	
CO4	5	4	5	4	4	5	4	4	4	5	4.4	
CO5	4	4	4	5	4	5	4	4	4	5	4.3	
Mean Overall Score											4.46	

Result: The Score of this Course is 4.46(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Child: meaning, demographic profile of children in India – rural & urban, its place in family and society; status of girl child; concept of socialization; factors influencing socialization; role of family in socialization; parental socialization during childhood and adolescence; role of peers in socialization, role of school in socialization; impact of television on children.

UNIT II

Problems of Children: childhood diseases and immunization; behaviour disorders of children; causes, consequences and prevention of child malnutrition, nutritional disorders, neglected children and abused children, child workers, child trafficking, child prostitution, HIV/AIDS affected and infected children

UNIT III

Child Education and Problems: Children with disabilities, School dropouts; Rural – Urban and gender differences – Problems in school settings. School Social Work: Concept, Need, Objectives, and Functions. – Child friendly schools initiative. Child Participation.

UNIT IV

Internationals and National instruments to promote and protect rights of children United Nations Charter of Children's Rights and Constitutional directives, Child welfare policies and programmes for children. Legislations relevant for protecting the rights of children-The Children (Pledging of Labour) Act 1935 - Employment of Children Act, 1938 – Minimum Wages Act 1948 - Child Labour (Prohibition and Regulation) Act 1986 – Juvenile Justice Act 2001.

UNIT V

Role and Functions of Professional Social worker in Family setting, Institutional settings, Child Guidance Clinic, Children's hospital, Foster care and adoption, Rehabilitation settings. Child help line services, School Social work – Current research studies in India on Child Rights, Child related services and issues – Specific skills required for Social Work intervention with the children.

TEXT BOOKS:

1. Chowdhry, Paul D (2000): Child Welfare Manual, Atma Ram & Sons Publishers, New Delhi.
2. Lawrence Shulman, 2015, Social Work Practice in Child Welfare, NASW Press.
3. Philip Popple, 2005, Child Welfare Social Work, Pearson Publications.
4. Proactive Child Protection Social Work Second Edition. 2014, Sage Publications India Private Ltd.
5. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications, New Delhi.
6. UGC NET/ SET Social Work Trueman's Specific series, 2016, Danika Publishing Company.

REFERENCE BOOKS:

1. Bhat, Bilal (2011): Rehabilitation of Child Labour: Problems and Prospects. Shipra Publications, Delhi.
2. Chowdhry, Paul D (2000): Child Welfare Manual, Atma Ram & Sons Publishers, New Delhi.
3. Deb, Sibnath and Aparna Mukherjee (2009): Impact of Sexual Abuse on Mental Health of Children. Concept Publishing Company, New Delhi.
4. Goonesekere, Savitri (2000): Children, Law and Justice: A South Asian Perspective. Sage Publication, New Delhi.
5. Lieten, G. K., (2004). Working children around the world: Child rights and child reality. Institute for Human Development, New Delhi and IREWOC Foundation, Amsterdam.

II – M.S.W	CARING THE PERSONS WITH DISABILITIES	19SPS34B
SEMESTER –III		HOURS: NIL
SELF STUDY– I (B)		CREDITS: 2

OBJECTIVE:

To identify the forms of disability and the welfare schemes.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Identify forms of disabilities.

CO2: Learn to diagnose and assess the functional abilities.

CO3: Be exposed to rehabilitative measure.

CO4: Understand the approaches in rehabilitation.

CO5: Be determined to the role of the social worker in this setting.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34B					COURSE TITLE: CARING THE PERSONS WITH DISABILITIES					HOURS: Nil	CREDITS: 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	4	5	5	5	4	4	5	4.6	
CO2	5	4	5	4	4	5	4	5	4	4	4.4	
CO3	4	4	4	3	5	4	5	4	4	4	4.1	
CO4	5	4	4	4	3	5	5	4	3	4	4.1	
CO5	5	4	4	5	4	4	4	3	3	4	4	
Mean Overall Score											4.24	

Result: The Score of this Course is 4.24(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Definition of impairment, Disability, handicap: Types of various Disabilities: magnitude, Causes and consequences.

UNIT II

Identification, Assessment of functional abilities and differential diagnosis. Myths and misconceptions, societal attitudes, reactions of parents, family members and ways of coping. Prevention of disabilities at primary, secondary and Tertiary levels, Intervention strategies at individual, family and community levels.

UNIT III

Agencies involved in the field of rehabilitations, Multidisciplinary rehabilitation team and their roles, Educational Institutes, Vocational Rehabilitation centers, State and Central Government Agencies, National and International non- governmental organizations (AICB NAB &CBM etc.) National policies and welfare programmes

UNIT IV

Accessibility and Assistive devices, Accessible India Campaign, Inclusive India campaign, CBR, (Community based rehabilitation).

UNIT V

Acts related to Persons with disabilities. Persons with Disability Act-2016, Rehabilitation Council of India Act-1992, National Trust Act-1999, united Nation Convention on the Rights of Persons with Disabilities (UNCRPD)

TEXT BOOKS:

1. Albrecht G.L, et al (2001) Hand Book of disability Studies, Sage, London.
2. Dr. Rumi Ahmed, Rights of Persons with Disability, White Falcon Publishing Solutions LIP.
3. Dr. S. Alice Mathew, 2016, Learning Disability and Remediation, Neelkamal Publications.
4. UGC NET/ SET Social Work Trueman's Specific series, 2016, Danika Publishing Company.
5. Upali Chakravarti, Disability and Care Work, Sage Publications India Private Ltd.

REFERENCE BOOKS::

1. Albrecht G.L, et al (2001) Hand Book of disability Studies, Sage, London
2. Blaxter M. (1976), The meaning of disability: A sociological study of impairment, London: Heinemann.
3. Grant, (2005) Learning disability: A lifecycle approach to valuing people, Open University Press, London
4. Hegarty Seamus & Mithu Alur, (2002) Education and Children with special needs, sage, London,
5. Karanth, Pratibha & Joe Rozario, (2003) Learning disability in India, Sage, London
6. Mani M.N.G & Jaiganesh.M.B, (2010). Source Book on disability, Coimbatore: UDIS Forum.
7. Moore, (2005) Researching disability issues, Open University Press, London.
8. Samus, H & Patri.A (eds). Women disability and identity, New Delhi: Sage publications.

II – M.S.W	HOSPITAL ADMINISTRATION	19SPS34C
SEMESTER –III		HOURS: Nil
SELF STUDY – I (C)		CREDITS: 2

OBJECTIVE:

To understand the Hospital Administration.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Be clear about the hospital and its classification.

CO2: Be exposed to planning and process.

CO3: Understand the hospital administration.

CO4: Understand the staffing and recruitment process.

CO5: Gain knowledge on hospital budgeting.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34C					COURSE TITLE: HOSPITAL ADMINISTRATION					HOURS : Nil	CREDITS : 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	4	2	5	3	5	5	4	3	4	5	4	
CO2	5	3	5	4	5	5	5	4	4	4	4.4	
CO3	5	3	5	4	5	5	5	3	5	5	4.5	
CO4	5	3	5	4	5	5	5	3	5	5	4.5	
CO5	4	3	4	4	4	5	4	3	4	5	4	
Mean Overall Score											4.28	

Result: The Score of this Course is 4.26(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Meaning of hospital, Evaluation of Hospital from charity to modern hospital classification of hospitals, General, special, public, Trust, Teaching-cum Research Hospital, Small or Large Size Hospital.

UNIT II

Planning a Hospital, The planning Process, Choosing a Site, Location and Access, Building Space Utilization, Physical Facilities- residential facilities requirements of various types of wards, out patient's services and in-patients services emergency services in Hospital - Medico legal case - Different departments required in the hospital.

UNIT III

Hospital Administration -Meaning, Nature and Scope Management of Hospitals- principles of Management need for Scientific management . Human resource management in Hospital personnel policies - Condition of Employment Promotional and Transfers - Performance appraisal. Working hours levels rules and benefits - safety conditions - salary and wages policies, Training and development.

UNIT IV

Staffing the hospital - selection and requirement of medical professional and technical staff -social workers -physiotherapist and occupational therapist Pharmacist - Radiographers - Lab technicians - dieticians - records officers - mechanics - electricians. Roles of Medical Records in Hospital Administration Content and their needs in the patient care system.

UNIT V

Hospital Budget - Department budget as a first step - specific elements of a department at budget including staff salary - supply cost- projected replacement of equipment - energy expenditures - contingency funds. Uses of computers in Hospital purchase centralization Shared Building system purchase agreements.

TEXT BOOKS:

1. B. M. Sakharkar, 2004, Principles of Hospital Administration and Planning, Jaypee Publications.
2. Benjamin Robert, et al 1983, Hospital Administration Desk Book Newjerky Prentice hall
3. DC Joshi, 2008, Hospital Administration, Jaypee Publications.
4. Joydeep Das Gupta, 2009, Hospital Administration and Management, a Comprehensive guide, Jaypee Publications.
5. Goal S L 1981, Health care Administration A Text Book New Delhi Sterling Publishers Pvt.

REFERENCE BOOKS:

1. Davies Rlawelynetal. 1966, Hospital planning & administration Geneva WHO
2. Rabick& Jonathan etal. 1983, Hospital Organization and Management London Spectrum Publishers. 5. Who Expert Committee 1975, Role of Hospital in programme of Community health protection WHO technical Report service.
3. WHO Expert Committee.1968. Hospital Administration WHO technical Report Services No.395.

II – M.S.W	WORKING WITH ELDERLY PEOPLE	19SPS34D
SEMESTER –III		HOURS: NIL
SELF STUDY – I (D)		CREDITS: 2

OBJECTIVE:

To understand the functions and theories of ageing and kinds of service rendered to the aged people.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the functions and theories of ageing.

CO2: Learn about the policies and Programme for the elder people.

CO3: Be exposed to family context and relationship.

CO4: Understand the kinds of service rendered to the aged people.

CO5: Be determined to the family intervention techniques.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34D					COURSE TITLE: WORKING WITH ELDERLY PEOPLE					HOURS: Nil	CREDITS: 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	4	4	5	4	5	5	5	4	4	5	4.5	
CO2	5	4	5	4	4	5	5	4	3	4	4.3	
CO3	4	4	4	3	4	4	5	4	4	4	4	
CO4	4	3	4	3	4	5	4	4	5	4	4	
CO5	5	4	4	3	4	5	4	4	3	4	4	
Mean Overall Score											4.16	

Result: The Score of this Course is 4.16(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Ageing: Definition, Concept– Dimensions of Ageing: Physiological, Psychological, Social and Functional – Theories of Ageing: Biological, Psychological & Social. Problems of Ageing: Social, Economic and Psychological–Demographic Aspects of Population, Ageing-National and International Trends – Status of the Aged in India – Ageing and Development.

UNIT II

Policies and Programmes: UN- Principles, International Plan of Action and Programme on Ageing. Government Policies and Programmes and welfare Schemes for the Elderly in India.

UNIT III

Family Context– Intimate Ties or Partnership in Later Life, Transitions in Marital Status: Widowhood, Divorce and Remarriage, Inter-Generational Relations: Common Medical and Psychiatric Problems of Old age, Institutionalization and Related Problems.

UNIT IV

Services for the Aged: Geriatric Clinics, Old Age Homes, Facilities & Services for the Terminally Ill, Recreational Centres, Day Care Centre, Information and Referral Services, Preventive and Supportive Services.

UNIT V

Application of CW, GW, Research & CO with Elderly: Gerontology and geriatrics, Case Work, Group Work, Research and Counseling. Family Intervention Techniques, Health Promotion, Disability Management, Role of Social Workers

TEXT BOOKS:

1. A. Murphy, 1994, Working with Elderly People, Souvenir Press Ltd.
2. Anne Murphy, 1994, Working with Elderly people a Care workers Hand Book, Thomas Cook Touring Handbook.
3. Desai Murli & Raju Siva, 2000, Gerontological Social Work in India: Some Issues & Perspectives.
4. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications, New Delhi.
5. UGC NET/ SET Social Work Trueman's Specific series, 2016, Danika Publishing Company.

REFERENCE BOOKS:

1. Bob G Knight, Psychotherapy with Older Adults, Sage, New Delhi, 2004.
2. Desai Murli & Raju Siva. 2000. Gerontological Social Work in India: Some Issues & Perspectives.
3. Irudhaya Rajan, S., Mishra. India's Elderly Burden or Challenge, Sankara Sarma, P. Sage, New Delhi, 1999.
4. Kumudini Dandekar, The Elderly in India, Sage, New Delhi, 1996.
5. Ward, The Ageing Experience: An introduction to Social Gerontology, Harpen & Rere New York, 1984.

II – M.S.W	WOMEN AND DEVELOPMENT	19SPS34E
SEMESTER –III		HOURS: NIL
SELF STUDY – I (E)		CREDITS: 2

OBJECTIVE:

To understand the functions of women development.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the functions of women development.

CO2: Learn the importance of women education.

CO3: Be exposed to gender analysis and relationship.

CO4: Understand the women problems and circumstances.

CO5: Be aware of the role of state and national level commission in women's development.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34E					COURSE TITLE: WOMEN AND DEVELOPMENT					HOURS: Nil	CREDITS: 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	4	4	4	3	4	4	5	3	4	4	3.9	
CO2	4	4	5	4	3	4	4	3	4	4	3.9	
CO3	4	3	4	4	3	5	4	3	4	4	3.8	
CO4	4	3	5	4	3	4	4	4	4	4	3.9	
CO5	4	4	5	4	4	5	4	3	4	4	4.1	
Mean Overall Score											3.98	

Result: The Score of this Course is 3.98(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Concept of development with reference to women: Women in development, women and development, Gender in development – meaning, strategic and practical needs, Patriarchy and patriarchal structures in India. Feminism and its types. Women's movements.

UNIT II

Education: Differences between male and female children in enrolment and educational achievement, problems in education of the girl child, participation in higher education; NGO and Government efforts to improve women's education. Employment: work participation of women, trends, exploitation of women, multiple roles of women. Health issues of women in India: Health problems, maternal health, maternal mortality, family planning choices and access to health services. HIV/AIDS and impact on women in India.

UNIT III

Gender analysis and its framework: Moser Framework, Social Relations Framework (SRF) (Kabeer), Harvard Framework, Gender Analysis Matrix (Parker), Women's Empowerment Framework (Longwe). Gender Census, Sex Ratio, WID, WAD, GAD. Gender Mainstreaming, Gender budgeting. Self Help Groups: benefits, procedures and best practices.

UNIT IV

Women in difficult circumstances: sex work, female headed households, women and displacement, women and disasters or riots and war, violence against women, transgender. Legal rights of women (salient features only): Marriage, divorce, maintenance, inheritance, adoption, employment, maternity benefits.

UNIT V

International conventions and efforts: CEDAW, Beijing Conference, International organizations and policies. Development programmes for women - Government policies and programmes for women-State and Center; Constitutional provisions; reservations for women. Best practices, Conventions, Committees, Policies and programmes. Role of National and State Women's Commissions

TEXT BOOKS:

1. Anjali Gandhi, 2012, Women's Work Health and Empowerment, Aakar Books Publishers.
2. Dr. Grishma, 2017, Women Empowerment Challenges and Strategies, Books clinic Publishing
3. Jaynalud Din Ahmed, Women Entrepreneurship in India, New Century Publication.
4. Kanhere U S (1995) Women and Socialization, Mittal Publishers, New Delhi.
5. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications, New Delhi.

REFERENCE BOOKS:

1. Bhasin, K (1984), Women and media – analysis, alternatives and actions, Kali for Women, New Delhi
2. Blumberg and Dwaraki (1980), India's educated women : options and constraints, Hindustan Publishing corporation, New Delhi
3. Devendar, Kiran (1985), Status and position of women in India, Shakthi Books, New Delhi
4. Hamilton r (1992) The liberation of women: a study of patriarchy, George Allen and Unwin, London
5. ICSSR (1985) Status of women in India- report of the National Commission, Allied publishers, New Delhi
6. Kanhere U S (1995) Women and Socialization, Mittal Publishers, New Delhi
7. Kaushik, Susheela (1993) Women's Oppression : patterns and perspective, Shakti Books, New Delhi
8. LWF (1990) Women's Human Rights, Lutheran World Foundation, Geneva.
9. Neera Desai (1987) Women and society in India, Ajanta Publications, New Delhi
10. Usha Rao (1983), Women in Development Society, Ashish Publishing house, New Delhi.

II – M.S.W	COMPENSATION MANAGEMENT	19SPS34F
SEMESTER –III		HOURS: NIL
SELF STUDY – I (F)		CREDITS: 2

OBJECTIVE:

To know about the concept of compensation management and employee benefits.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the meaning of compensation.

CO2: Learn the managing compensation and its structure.

CO3: Be exposed to employer compensation and bonus.

CO4: Understand to manage the employee benefits.

CO5: Be aware of the employee benefits.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34F					COURSE TITLE: COMPENSATION MANAGEMENT					HOURS: Nil	CREDITS: 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	4	3	4	4	3	4	3	4	4	3	3.6	
CO2	4	3	4	3	4	4	4	3	4	3	3.6	
CO3	4	3	4	4	3	4	3	4	4	4	3.7	
CO4	4	3	4	4	4	3	4	4	3	4	3.7	
CO5	4	4	4	3	4	4	4	3	4	4	3.8	
	Mean Overall Score										3.68	

Result: The Score of this Course is 3.68(High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Introduction: Compensation meaning, objectives, nature of compensation, types of compensations, compensation responsibilities, Compensation system design issues: Compensations Philosophies, compensation approaches, decision about compensation, compensation- base to pay, individual Vs team rewards, Perceptions of pay Fairness, legal constraints on pay systems.

UNIT II

Managing Compensation: Strategic Compensation planning, determining compensation-the wage mix, Development of a Base Pay System: Job evaluation systems, the compensation structure- Wage and salary surveys, the wage curve, pay grades and rate ranges, preparing salary matrix, government regulation on compensation, fixing pay, significant compensation issues, Compensation as a retention strategy

UNIT III

Variable Pay and Executive Compensation: Strategic reasons for Incentive plans, administering incentive plans, Individual incentive plans-Piecework, Standard hour plan, Bonuses, Merit Pay, Group incentive plans- Team compensation, Gain sharing incentive Plans, Enterprise incentive plans- Profit Sharing plans, Stock Options, ESOPs, executive compensation elements of executive compensation and its management, International compensation Management.

UNIT IV

Managing Employee Benefits: Benefits- meaning, strategic perspectives on benefits-goals for benefits, benefits need analysis, funding benefits, benchmarking benefit schemes, nature and types of benefits, Employee benefits programs- security benefits, retirement security benefits, health care benefits, time-off benefits, benefits administration

UNIT V

Employee benefits required by law, discretionary major employee benefits, creating a work life setting, employee services- designing a benefits package.

TEXT BOOKS:

1. B. D. Singh (2017). Compensation and Reward Management. Excel Books.
2. Bishwant Gosh. Compensation and Reward Management, 2012, Sterling Publishers.
3. D. K. Bhattacharya, 2009, Compensation Management, Oxford University Press.
4. Richard I Henderson, 1997, Performance Appraisal and Compensation Management, Oxford University Press.
5. Sharma Vivek. 2014. UGC NET Tutor Social Work, Arihant Publications. New Delhi.

REFERENCE BOOKS:

1. Dr. Kanchan Bhatia(2014), " Compensation Management" published by Himalaya Publishing House, ISBN-13: 978-9352022151
2. Henderson (2007), "Compensation Management in a Knowledge - based World" published by Pearson Education India, ISBN-13: 978-8131711101
3. J. Martocchio Joseph (2018), "Strategic Compensation: A Human Resource Management Approach" published by Pearson Education, ISBN-13: 978-9332584839

II – M.S.W	SUMMER PLACEMENT	19SPS34G
SEMESTER – III		HOURS: NIL
SELF STUDY – I (G)		CREDITS: 2

At the end of first year, the students can go for non-supervised summer placement for a period of 30 days during summer vacation in an agency or industry related to his or her specialization so as to utilize the Summer Vacation fruitfully to develop the professional self in oneself. Two credits are allotted for this in the third semester after submitting report and certificate of Summer Placement. This is to motivate students to engage in self-learning.

OBJECTIVE:

To experience with management operation and work settings.

COURSE OUTCOMES (COs):

After completing this course, students will:

CO1: Be exposed to the industry and social welfare organization.

CO2: Be experienced with management operation and work settings.

CO3: Be applying theoretical knowledge into practical.

CO4: Carry out research project.

CO5: Learn the ethics and role of social worker.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER III	COURSE CODE: 19SPS34G					COURSE TITLE: SUMMER PLACEMENT					HOURS: Nil	CREDITS: 2
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	3	5	4	5	5	4	3	5	5	4.4	
CO2	5	4	5	4	5	5	4	3	5	5	4.5	
CO3	5	4	5	4	5	5	4	3	5	5	4.5	
CO4	4	5	4	5	5	4	4	4	4	4	4.3	
CO5	5	3	5	4	5	5	5	3	5	5	4.5	
Mean Overall Score											4.44	

Result: The Score of this Course is 4.44(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	$0 \leq \text{rating} \leq 1$	$1.1 \leq \text{rating} \leq 2$	$2.1 \leq \text{rating} \leq 3$	$3.1 \leq \text{rating} \leq 4$	$4.1 \leq \text{rating} \leq 5$
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

Process:

1. The learner must volunteer to locate a setting (own choice) about two months in advance and explore the possibilities of 10days practice learning and practice placement.
2. The practice learning setting should preferably have a professionally trained social worker on the team of a staff.
3. The department will provide official letter for undertaking training in any organization.
4. The learner is to record the learning and submit a comprehensive report (in the format provided by the department) at the beginning of the third semester both to the department (compulsory) and to the setting (on requirement).
5. Each student is expected to produce certificate of his or her Summer Placement training in the third semester and two credits are allotted to them.

SPECIALISATION PAPER III**COMMUNITY DEVELOPMENT SPECIALISATION**

II – M.S.W	PROJECT MANAGEMENT	19PSW41A
SEMESTER – IV		HOURS : 5
CORE – XI		CREDIT : 4

OBJECTIVE:

To understand the concept of project and project identification and implementation.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Learn the concept of project cycle management.

CO2: Understand the project identification and implementation.

CO3: Be aware of project design.

CO4: Understand the CSR.

CO5: Determine the role of central and state governments in advocacy.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: 19PSW41A					COURSE TITLE: PROJECT MANAGEMENT					HOURS: 5	CREDITS: 4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	3	5	3	4	5	4	5	4	4	4.2	
CO2	5	3	5	3	5	5	4	5	4	5	4.4	
CO3	5	3	5	3	5	5	4	5	4	5	4.4	
CO4	5	4	5	3	5	5	4	4	4	5	4.4	
CO5	5	3	5	3	4	5	4	4	4	4	4.1	
Mean Overall Score											4.3	

Result: The Score of this Course is 4.3(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Planning: Meaning, Process, Reasons, Usefulness, Types, Barriers, Importance. Development Cycle in Planning – Existing Development Cycle and Desired Development cycle. Project Cycle – Meaning, Phases – Identification, Design, Implementation, Evaluation. Project Cycle Management – Meaning and the Importance. Concept Note – Meaning, Outline.

UNIT II

Project Identification – Need Assessment, Tools for Need Assessment – Listening, Interviewing, Focus Groups, Community Mapping, Priority Fixing. Capacity Assessment – Meaning, Types of Assets in Capacity Assessment. Assets and Capacity. Appreciative Inquiry – Discover, Dream, Design and Deliver.

UNIT III

Project design – Meaning. Process of Project Designing – Stakeholder Analysis, Research including Problem Analysis, Log Frame, Risk Analysis, Action Planning, Budgeting. Implementation – Meaning, Phases, Factors Affecting the Implementation. Monitoring Reviewing and Evaluation – Meaning, Purposes, Differences, Indicators, Reporting

UNIT IV

Corporate Social Responsibility – Meaning, Importance, Theory and Models of CSR. Social Auditing – Meaning, Uses, Principles, Stages – Social Book Keeping, Social Accounting and Social Auditing. Methodology and Process of Social Auditing.

UNIT V

Advocacy: Meaning, Approach, Role and Practice; National & International Funding Agencies; State and Central Government Projects; Project Proposal Writing.

TEXT BOOKS:

1. Blackman, Rachel. 2003. Project Cycle Management. UK: Tearfund.
2. Clifford. Gray Erik W. and Larson Gautam. V. Dasai. 2013. Project Management IV Edition. McGraw Hill Education India Pvt. Ltd. New Delhi.
3. Gopala Krishnan. P, V.E Ramamoorthy, 2014, Text Book of Project Cycle Management, Trinity Publications.
4. Harwey Maylor, 2012, Project Cycle Management 3rd Edition, Dorling Kindersley Private Limited Noida.
5. Thomas Ericson, 2015, Project Management 2nd Edition, Global Academic Publishers and Distributors, New Delhi.

REFERENCE BOOKS:

1. Crooks, Bill. 2003. Capacity Self Assessment. UK: Tearfund.
2. Desai, Vasanth. 1988. Rural Development. Vol. I to VI. Bombay: Himalaya Publishing House.
3. Gordon, Graham. 2002. Practical Action in Advocacy. UK: Tear fund
4. Kadekodi, G.K. and K. Chopra. 1999. Operationalizing Sustainable Development New Delhi: Sage Publications. India Pvt. Ltd.
5. Pareek, Udai. 1982. Education and Rural Development in Asia. Oxford and IBH Publications. New Delhi.
6. Vasanth Desai, Project Management, Himalaya Publishing House, Private Limited, Mumbai.

SPECIALISATION PAPER – III**HUMAN RESOURCE MANAGEMENT SPECIALISATION**

II – M.S.W	ORGANIZATIONAL BEHAVIOUR	19PSW41B
SEMESTER – IV		HOURS : 5
CORE– XI		CREDIT : 4

OBJECTIVE:

To be exposed to organization and personal behaviour.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the concept of organizational behaviour.

CO2: Learn the process of organizational development.

CO3: Be exposed to organization and personal behaviour.

CO4: Understand the group behavior at work place.

CO5: Be aware of role of behavioral scientist in industry.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: 19PSW41B					COURSE TITLE: ORGANIZATIONAL BEHAVIOUR					HOURS :5	CREDITS:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	4	5	5	5	4	5	5	4.7	
CO2	5	4	5	4	3	5	5	3	5	5	4.4	
CO3	5	4	5	3	5	5	5	4	5	5	4.6	
CO4	5	4	5	4	5	5	5	4	5	5	4.7	
CO5	5	4	5	4	5	5	5	4	5	5	4.7	
Mean Overall Score											4.62	

Result: The Score of this Course is 4.62(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Organizational Behaviour: Brief History, Definition, Characteristics, and Models. Contributions of the Behavioral Sciences. Human Behaviour at Work: Theories of Motivation – Motivating Human – Systems Theory, Emotional quotient at Work. Emerging perspectives on Organizational Behavior – Dimensions of Organizational Behavior.

UNIT II

Inter-Personal and Intra-Personal behavior: Physical and intellectual ability, Emotional Intelligence, Attitude, Job Satisfaction, Job Involvement and organizational commitment, Personality, Perception, Assertiveness, Learning: Process and Theories, Transactional Analysis, Johari window. Motivation: Concept, theories and Techniques. Morale: Meaning and importance, Factors, Measures and techniques of promoting positive morale.

UNIT III

Foundation of Group Behaviour at Workplace: Concept, Types of Groups, Group Structure, Group Dynamics: Decision Making, Team work, Communication, Leadership - Meaning, Roles, Skills, Styles, Theories, Types of Leadership, Power and Politics - Quality of work life – Work Life Balance – Employee Empowerment and Employee Engagement.

UNIT IV

Organizational Conflict: Concepts, causes and types – Conflict resolution strategies. Organizational change: Concept, forces of change and resistance to change, Managing organizational change and diversity. Organizational Culture and Climate. Organizational Development: Concept, Definition, theories and practice: Organizational Development and Organizational Behaviour, OD Intervention techniques: Sensitivity Training. Quality Circles. Survey Feedback, Management of change. Individual behaviour, Foundations of individual behaviour.

UNIT V

Organizational Dynamics: Stress and Burn Out: Concepts, Causes, Consequences - Coping mechanism and strategies. Gender Sensitivity. Dysfunctional Behaviours: Absenteeism, Alcoholism, Fatigue, Monotony, Accidents and Boredom; Role of Behavioural Scientist in Industry. Employee Coaching and Mentoring. Employee Counseling: Concept, objectives, need, functions, techniques and advantages.

TEXT BOOKS:

1. Aswathappa K. 2012. Organizational behaviour. Himalaya Publication house. Mumbai.
2. Dr. S. S. Khanka. Organizational Behaviour, S. Chand Company Pvt, Ltd 2008.
3. Fred Luthans. Organizational Behaviour, Mc Graw Hill International Edition 2011.
4. John W. Newstorm. 2007. Organizational Behaviour Human Behaviour at Work, Tata Mc Graw Hill.
5. P. Subha Rao. Personnel and Human Resource Management, Himalaya Publishing House, 2016.

REFERENCE BOOKS:

1. Fred Luthans. Organizational Behaviour, Mc Graw Hill International Edition, 2002.
2. Hellriegel Don and Slocum John W., Jr, 2004 Organizational Behaviour, New Delhi, Thomson South-Western.
3. Khanka, S S., 2008 Organizational Behaviour, New Delhi, S.Chand and Co., Ltd.

4. Kumar Arun and Meenakshi N, 2009 Organizational Behaviour- A Modern Approach, NIILM Center for Management Studies, New Delhi.
5. Nalini. R. 2011. Social work and the workplace. New Delhi: Concept Publications
6. Nelson, Debra L and James Compbell, 2007 Organizational Behaviour- Foundations, Realities and Challenges, New Delhi, Thomson South-Western.
7. Paul Hersey Kenneth H. Blanchard, Dewey E. Johnson. Management of Organizational Behaviour Utilizing Human Resource, Prentice Hall of India Pvt Ltd, 2001.
8. Robbins Stephen. P. et al. 2012. Organizational behaviour. New Delhi. Pearson publications.

SPECIALISATION PAPER – III

MEDICAL AND PSYCHIATRY SPECIALIZATION

II – M.S.W	PSYCHIATRIC SOCIAL WORK	PSW41C
SEMESTER – IV		HRS/WK: 5
CORE– XI		CREDIT: 4

OBJECTIVE:

To be exposed equipped with clinical setting and methods of psychological treatments.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Learn the psychiatric social work.

CO2: Be equipped with clinical setting.

CO3: Be exposed to methods of psychological treatments.

CO4: Understand the children mentality.

CO5: Be aware of the role of social worker in rehabilitation Centre.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: 20PSW41C					COURSE TITLE: PSYCHIATRIC SOCIAL WORK					HOURS: S:5	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	4	5	4	5	5	5	4	4	4	4.5	
CO2	5	4	5	4	5	5	4	4	4	4	4.4	
CO3	5	4	5	5	5	5	4	5	4	4	4.6	
CO4	4	5	4	5	4	5	4	5	4	4	4.3	
CO5	5	4	4	5	4	5	4	5	4	4	4.4	
Mean Overall Score											4.44	

Result: The Score of this Course is 4.44(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	$0 \leq \text{rating} \leq 1$	$1.1 \leq \text{rating} \leq 2$	$2.1 \leq \text{rating} \leq 3$	$3.1 \leq \text{rating} \leq 4$	$4.1 \leq \text{rating} \leq 5$
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Psychiatric Social Work: Concept, Definition, Limitations and difficulties faced in psychiatric social work practice, Magnitude of Mental Health Problems; Analysis of mental health problems among vulnerable groups such as women, aged, socio-economically disadvantaged, urban and rural population and disaster victims in India. Scope of Social Work in Mental Health.

UNIT II

Present Practice and equipment of Psychiatric Social Work in various Clinical Setting. Mental health institutions, Government and Private Hospital and Psychiatric Clinic, Half way homes, Day care Centers, Sheltered Workshops, Department of Preventive and Social Medicine.

UNIT III

Psychiatric Social Work Practices: Psychoanalytical, Psycho-Social, Transactional analysis, Life span approach, Family Centered Treatment, Tasks Centered, Therapeutic Intervention in Psychiatric illness: Psycho Surgery, Occupational therapy, Cognitive Behavior Modification therapy, Play therapy, Music therapy.

UNIT IV

Child Mental Health and Social Work practice; development and psychological perspectives in child mental health; social work practice in child guidance clinic; Prevention and treatment intervention in family, school, neighborhood and community settings. Psychiatric Social Work Practice in Crisis intervention centers and with special groups such as rape victims and HIV or AIDS patients.

UNIT V

Psychological Rehabilitation: Concept, Principles, Process and Programmes; Role of Social Workers. Mental health policies and legislation in India; national mental health programmes. Research – Single Case Evaluation; Qualitative and Action research on mental health issues; monitoring and evaluation of programmes; Mental Health Care Models: TTK, SCARF, NIMHANS and BANYAN. Role and Functions of Psychiatric Social Worker

TEXT BOOKS:

1. Dr. R.N. Sharma, 2010, Abnormal Psychology, Subject Publication.
2. Niraj Ahuja, 2011, A Text Book of Psychiatry, Jaypee Brothers Medical Publishers (pvt) Ltd.
3. Randy J. Larsen, David M. Buss, 2011, Personality Psychology, Tata McGraw – Hill Edition.
4. Robert L. Solso, 2001, Cognitive Psychology, Delhi: Pearson Education.
5. Verma, Ratna, 1991 Psychiatric Social Work in India, Sage Publications, New Delhi
6. Patricia Casey, Brenden Kelly Fish's Clinical Psychopathology, third edition
7. Niraj Ahuja A Short Textbook of Psychiatry. Seventh edition.

REFERENCE BOOKS:

1. Daver, Bhargavi, 2001 Mental Health from a Gender Perspective, Sage Publications, New Delhi
2. Dhanda, Amita, 1999 Legal Order and Mental Disorder, Sage Publications, New Delhi
3. Ian Mathews(2000) Social Work and Spirituality, Learning Matters Ltd. Exeter, UK
4. Kapur, Malavika, 1997 Mental Health in Indian Schools, Sage Publications, New Delhi
5. Patricia Casey, Brendan Kelly Fish's Clinical Psychopathology, third Edition Niraj Ahuja A Short Textbook of Psychiatry. Seventh Edition.
6. WHO, 1991 Innovative Approaches in Mental Health Care, Psychosocial Interventions and Co-management, Geneva.

SPECIALISATION PAPER – IV**COMMUNITY DEVELOPMENT SPECIALIZATION**

II – M.S.W	COMMUNITY DEVELOPMENT MANAGEMENT	19PSW42A
SEMESTER – IV		HRS/WK: 5
CORE– XII		CREDIT: 4

OBJECTIVE:

To learn the strategies to develop the community.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the concept of NGO.

CO2: Learn the strategies to develop the community.

CO3: Be exposed to self-help groups and panchayat system.

CO4: Understand about the structure of NGOs and their management aspects.

CO5: Be aware of entrepreneurship Training and Development of Entrepreneurs.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: 19PSW42A					COURSE TITLE: COMMUNITY DEVELOPMENT MANAGEMENT					HOUR S:5	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	3	5	3	4	5	5	5	4	4	4.3	
CO2	5	3	5	3	5	5	5	5	4	5	4.5	
CO3	5	4	5	3	5	5	5	5	4	5	4.6	
CO4	5	3	5	3	5	5	5	4	4	5	4.4	
CO5	5	3	5	3	4	5	5	4	4	4	4.2	
Mean Overall Score											4.4	

Result: The Score of this Course is 4.4(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Introduction to NGO: Concept and Characteristics, Types of NGOs – Classification; Role of NGOs in National Development; History of NGO Sector in India and World. Registration of NGO under Tamil Nadu Societies Registration Act 1975. Tax Regulations concerning NGOs: Specific Tax Exemptions (Section 12A, Section 35AC, Section 80G & 80GG of Income Tax Act. Foreign Contributions: Legal Regulations (Foreign Contribution Regulations Act)

UNIT II

Government Schemes for the NGO Sector: Grant – in Aid schemes and other concessions of the Government of India and Tamil Nadu State Government; Schemes for the Welfare of the Children, Youth, Women, Aged and Differently Abled. International Agencies and NGOs: UN and its Agencies, World Bank, Asian Development Bank and other International Donor Agencies, Networking and Partnership with Government and other agencies.

UNIT III

Self Help Groups & Federation of SHGS at the Panchayats, Cluster, Block and District. Role of state, banks in SHGs. Maintenance of records in SHGs. Grading and Evaluation of SHGs. Role of SHGs in local Issue Tackling. Leadership in SHGs. Problems faced by SHGs. SHGs and Economic development. Role of NGOs in SHGs. Role of social workers in SHGs. Micro Finance- Meaning and Characteristics- Working of Micro Finance- Philosophy of Micro Finance- Role of Social Worker in Micro Finance.

UNIT IV

Water shed Management – Meaning, Objectives, and Implementation. Economic Benefits, Social Benefits. Role of NGOs in Water Shed Management. Role of Social Workers in Water Shed Management. Waste Land Development – Meaning and Characteristics. Identification of Waste Land, Role of NGOs in Waste Land Development. Community Based Organizations for Sustainable Development – Meaning, Characteristics- Community Participation

UNIT V

Entrepreneurship – Meaning, Characteristics. Problems of Entrepreneurship. Women Entrepreneurs, Rural Entrepreneur. Personality and Dynamics of Entrepreneurs. Training and Development of Entrepreneurs. Role of TN Small Industries Development Corporation (SIDCO), National Bank for Agriculture and Rural Development (NABARD) and Khadi and Village Industries Commission (KVIC) in Entrepreneur development. Role of Social Workers in Entrepreneur development.

TEXT BOOKS:

1. Asha Ramagonda Patil, 2013, Community Organization and Development an Indian Perspective, Eastern Economy Edition,
2. Jayashree. 2005. Entrepreneurial Development. Chennai: Marghan.
3. Suresh Chandra Annie Karen. 2015. Non - Governmental Organizations Origin and Development, Rawat Publications. Jaipur.
4. Samuel H Taylor, 2013, Theory and Practice of Community Social Work, New Delhi.
5. W. Sheafor Charles J. Horejsi, 2011, Techniques and Guidance for Social Work Practice, Ninth Edition, Bradford Eastern Economy Edition.

REFERENCE BOOKS:

1. Daniel A.V. 2011. Strategies for Agricultural Development Bombay: Vora.
2. Daniel, Lazer. 2008. Micro Training Poverty and Eradication. New Delhi: New Century Book House.
3. Desai Vasant. 2004: Dynamics of Entrepreneurial Development. New Delhi: Sultan anand& sons.
4. Giriappa. S. 2011. Water the Efficiency in Agriculture. Calcutta: Oxford Press.
5. Gupta C.B. 2004: Entrepreneurial Development. New Delhi: Sultan Anand& Sons.
6. Sharma, R. K. 2011. Entrepreneurship Development. Bombay: Himalaya Publishing House
7. Upendra, Nath Roy. 2005. People Participation in Watershed Management. New Delhi: Kanishka Publisher.
8. Usharani, K. 2008. Marketing Strategies, Finance Viability of Self Help Group. New Delhi: Sarop& Sons.

SPECIALISATION PAPER – IV

HUMAN RESOURCE MANAGEMENT SPECIALIZATION

II – M.S.W	INDUSTRIAL RELATONS	PSW42B
SEMESTER – IV		HRS/WK: 5
CORE– XII		CREDIT: 4

OBJECTIVE:

To understand the relationship between the industries and employer & employee.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the concept of industrial relation.

CO2: Understand the relationship between the industries.

CO3: Be exposed trade union and bargaining system.

CO4: Understand the industrial disputes.

CO5: Gain knowledge on industrial legislations.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: PSW42B					COURSE TITLE: INDUSTRIAL RELATONS					HOURS :5	CREDITS:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	4	5	5	4	3	5	5	4.5	
CO2	5	4	5	4	5	5	5	3	4	5	4.5	
CO3	5	4	5	4	5	5	4	3	5	5	4.5	
CO4	5	4	5	4	5	5	5	3	4	5	4.5	
CO5	4	5	4	3	5	5	4	4	4	4	4.2	
Mean Overall Score											4.44	

Result: The Score of this Course is 4.44(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Industrial Relations: Meaning, Definition, Scope, Need and Factors Influencing IR Evolution of IR- Characteristics and Participants of IR. Approaches to IR- Maxian, Giri, Webbs, Dunlop. Influence of Socio-Economic, Political and Technical Forces on Industrial Relations; IR at Shop Floor and Plant. International Labour Organization: History - Aims and Objectives - Structure - Functions. Influence of ILO on Indian Industrial Relations - Labour welfare practices in India.

UNIT II

Trade Unions: Meaning, General features- Principles of Union- Major trade unions in India- Problems and Weakness of trade union- Measures to Strengthening the Functioning of trade union. Trade Union: Origin and Growth of trade union movement in India - Theories - Functions - Administration of Unions - Leadership - Membership and Finance - management relations: Impact of Liberalization, Privatization and Globalization.

UNIT III

Collective Bargaining: Main Features –Importance- Contents and Coverage of Collective Bargaining: Concept, Goals, Principles, Prerequisites. Bargaining Strategies - The factors influencing Collective bargaining - Skills of an effective bargaining agent. Workers Participation in Management: Concept - Aims and objectives - Scope - Levels of Participation, Forms of Participation in India- Conditions essential for working of the Scheme of workers' participation in Management.

UNIT IV

Industrial Dispute: Meaning, Concept, Instruments of Coercion – Strike, Picketing, Bandh, Strikes and Lock – Out; Dispute Settlement Mechanisms: Bipartite Approach – Negotiation, Mediation, Works Committee, Significance of Employers' Federations; Tripartite Approach - Conciliation, Arbitration, Adjudication - Court of Enquiry, Labour Courts, Industrial Tribunal, National Tribunal, Awards; industrial democracy – Workers Participation.

UNIT V

Industrial Relations Legislation: Indian Trade Union Act 1926, Industrial Disputes Act 1947, Industrial Employment (Standing Orders) Act 1946, The Industrial Relation Code – 2019. Emerging Trends in Union - Employee Discipline, Domestic enquiry proceedings, Grievance Redressal Machinery, Case Studies on Industrial Dispute.

TEXT BOOKS:

1. B. Nandhakumar, Vijay Nicole, 2015, Industrial Relations Labour Welfare and Labour Laws, Imprints Private Limited, Chennai.
2. M. Sivakumar, 2011, Industrial Relations and Labour Welfare, Lakshmi Publications, Chennai.
3. P. R. N. Sinha, InduBala Sinha, Seema Priyafarshini Shekhar, 2020, Industrial Relations, Trade Unions and Labour Registration, Pearson.
4. S C Srinivastava, 2007, Industrial Relations and Labour Laws, Vikas Publishing House Private Limited, New Delhi.
5. Yoder, Dale. 1976. Personnel Management and Industrial Relations. New Delhi: Prentice Hall of India Pvt. Ltd.

REFERENCE BOOKS:

1. Johnson, T. L. 1981. Introduction to Industrial Relations. Britain: MacDonal & Enerd. Great
2. Mamkootam. Kuriakose. 1982. Trade Unions. Myth and reality. New Delhi: Oxford University press.
3. Mamoria, C. B. and Mamoria Satish. 1984. Industrial Labour. Social Security and Industrial peace in India. Allahabad: Kitab Mahal.
4. Punekar, S. D. et. al. 1981. Labour welfare. Trade Unions and Industrial Relations. Bombay: Himalaya Publishing House.
5. Ramassamy. E. A. and Uma Ramasamy. 1981. Industry and Labour An introduction. New Delhi: Oxford University Press.
6. White, K. Head. 1977. Industrial Relations. London: Hodder & Sought.
7. Yoder, Dale and Paul, D. Stanbhas, 1985. Personnel Management and Industrial Relations. New Delhi: Prentice Hall of India Pvt. Ltd.

SPECIALISATION PAPER – IV

MEDICAL AND PSYCHIATRY SPECIALIZATION

II – M.S.W	COMMUNITY HEALTH	PSW42C
SEMESTER – IV		HRS/WK:5
CORE– XII		CREDIT: 4

OBJECTIVE:

To understand the concept of community health and occupational health diseases.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Gain knowledge on health and hygiene.

CO2: Enlighten with occupational health disease.

CO3: Be exposed to health care delivery system.

CO4: Be aware on health education.

CO5: Understand the community health and its work process.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER II	COURSE CODE: PSW42C					COURSE TITLE: COMMUNITY HEALTH					HOUR S:5	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PS O1	PS O2	PS O3	PS O4	PS O5		
CO1	5	4	4	4	5	5	5	4	4	4	4.4	
CO2	4	4	5	4	4	5	5	4	5	4	4.4	
CO3	4	4	5	4	5	5	4	4	4	4	4.3	
CO4	4	4	4	4	4	5	4	4	4	4	4.1	
CO5	5	4	5	4	5	5	4	5	4	5	4.6	
Mean Overall Score											4.36	

Result: The Score of this Course is 4.36(Very High)

Association Scale	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Concept of Health: Meaning, Definition, Historical Development, Factors Influencing Health-Social and Preventive medicine. Organization and Administration of Health Care at the Center, State, District, Municipality and Village Level; Health Planning in India; Health Committees; Five Year Plan in Relation to Health Care. Emerging need for Palliative & Geriatric Care.

UNIT II

Community Health Care - Changing Concepts; Primary Health Care for All; Health Status and Health Problems; Health Care Systems - Primary Health Centre; Private Health Systems Indigenous Systems; Voluntary Health Systems; Role of Social Worker in Community Health.

UNIT III

Health Legislation; ESI Act 1948 and its amendment 1975, Medical Termination of Pregnancy Act 1971. Doctors Patients and the Consumer Protection act 1986, PWD & Equal opportunities Act 1995, Reproductive health Act, Narcotic Drugs and Psychotropic substances Act 1985, Environmental Protection Act 1986.

UNIT IV

Community Health care needs Assessment: Assessing Community Health needs - Moralizing core groups and Community Participation- Training of multipurpose health workers in community health Programs. Health Policies, Health Care Programmes in India: State and Central Insurance Scheme, Rashtriya Arogya Nidhi, National Health Policy 1983, Population Problems and control.

UNIT V

Health Programmes at the National level: National control of blind program, welfare program for physically challenged, national health Programmes: family welfare, maternal and child health, ICDS, School health programme, UIP, NMEP, NLEP, Diarrhea Disease control program. The Prenatal Diagnosis Technique (Regulation and Prevention of Misuse) Act, 1994.

TEXT BOOKS:

1. Govt. of India (2002): National Health Policy, New Delhi, Ministry of Health and Family Welfare, New Delhi.
2. James F. McKenzie, Robert R. Pinger, Denise M. Seabert An Introduction to Community and Public Health.
3. James F. McKenzie, Robert R. Pinger, Jerome E. Kotecki, An Introduction to Community Health.
4. K. Park, 2013, Park Text Book of Preventive and Social Medicine, M/S Banarsidas Bhanot Publishers.
5. Pondicherry Aids Control Society, 2007. Pregnancy, Byword books Private Limited.

REFERENCE BOOKS:

1. Jim Yong Kim et al (2000): Dying for Growth: Global Inequality and the Health of the Poor, Cambridge, Common Courage Press. Chapters 2&3.
2. Levant, Ronald F. 1984. Family Therapy. New Delhi: Prentice Hall of India Pvt. Ltd.
3. Mackintosh, M and M.Koivusalo (Ed.) (2005): Commercialization of Health Care: Global and Local Dynamics and Policy Responses, New York, UNRISD and Palgrave-Macmillan.
4. Mane P. and Gandevia K. 1992. Mental Health in India, Issues and Concerns. Bombay: Tata Institute of Social Sciences.
5. World Health Organization 1990. Schizophrenia Information for Families – A Manual prepared by the World Schizophrenia Fellowship for Publication in Cooperation with the WHO.
6. World Health Organization 1992. Innovative Approaches in Mental Health Care. Psycho Social Interventions and Case Management. Geneva: WHO.

II – M.S.W	CONCURRENT FIELD WORK PRACTICUM – IV	19PSWF4
SEMESTER – IV		HOURS/ WEEK : 14 *
CORE PRACTICAL – IV		CREDIT : 4

OBJECTIVE:

To gain practical knowledge in different settings.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Be applicable of practical knowledge in different settings.

CO2: Learn the role of HR manager in industries.

CO3: Learn the role of social worker in NGO settings.

CO4: Understand the role of medical social worker.

CO5: Be aware of organizing programme.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE:19PSWF4					COURSE TITLE: CONCURRENT FIELD WORK PRACTICUM – IV					HOURS :14	CREDITS:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	3	5	5	4	3	5	5	4.4	
CO2	5	4	5	4	5	5	5	4	5	5	4.7	
CO3	5	4	5	4	5	5	5	4	5	5	4.7	
CO4	5	4	5	4	5	5	5	4	5	5	4.7	
CO5	5	3	5	4	5	5	5	4	5	5	4.6	
Mean Overall Score											4.62	

Result: The Score of this Course is 4.62(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

In the final semester the students go for practice based social work for two days in a week and expected to spend a minimum of 10 hours per week in the field.

The students are placed in villages or hospitals or schools or NGOs or government offices or counseling centers or welfare organizations or service organization or industries according to the fields of specialization for a semester where MSW supervisor is available.

During the placement the students are expected involve with the activities of the organization to whatever extent possible.

The students make effort to get exposure and experience to relate the theoretical knowledge what they have gained in the class room and try to practice them. The students also undertake any assignments given to them by the agency; they may also undertake any research for the organization. The community organization programme is being organized by each student to promote extension activities towards different villages, institutions and organizations.

Every week the students write a report of their activities and submit to the concerned field work supervisor. The supervisor conducts individual and group conference every week regularly. At the end of the semester Viva- Voce is conducted by two examiners. 20 marks are being awarded by the internal faculty supervisor, 20 Marks are awarded by the Agency Supervisor and 60 marks are being awarded by the external examiner.

* Number of hours spent for two days in a week by a student in the field.

Marks Allotments

Specialization - Community Development

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Group Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

Specialization – Human Resource Management

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Role of Human Resource Management Department, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

Specialization - Medical and Psychiatric

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Case Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

II – M.S.W	RESEARCH PROJECT	JPSW1016
SEMESTER – IV		HRS/WK : 6
CORE PROJECT		CREDIT : 6

OBJECTIVE:

To understand the importance of research, factors in collecting reviews for the research projects.

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Understand the importance of research.

CO2: Determine the factors in collecting reviews for the research projects.

CO3: Be aware of writing research proposal

CO4: Determine the findings for chosen topic.

CO5: Finds suggestion and conclusion for the research projects.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: JPSW1016					COURSE TITLE: RESEARCH PROJECT					HOURS :6	CREDITS:6
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	4	5	4	4	4	4	4	5	4	4	4.2	
CO2	2	5	4	3	4	4	4	5	4	4	3.9	
CO3	4	5	4	4	4	4	4	4	4	4	4.1	
CO4	3	5	2	4	4	4	3	5	5	5	4	
CO5	4	5	3	4	4	4	4	5	5	5	4.3	
	Mean Overall Score										4.1	

Result: The Score of this Course is 4.1(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

The students are placed under a supervisor for the research project work. The students are encouraged to start the project work in the third semester itself. Review meeting of three stages will be held in 20 days interval to monitor and guide the Students' Research Project.

Schedule for Review Meetings

- Review Meet I – Finalization of Topic, Tool and Proposal
 Review Meet II – Introduction and Review of the Literature
 Review Meet III – Data Analysis, Interpretation, Findings and Suggestions

In the fourth semester the students complete the research study and submit the final copy for valuation. At the end of the semester Viva- Voce is conducted by the external examiners.

Research Report Format (The Research Project Report should be typed in Times New Roman Font, 12 font size with 1.5 line space)

1. Outer Cover
2. Title Page
3. Certificate
4. Preface
5. Acknowledgement
6. Table of Contents
7. List of Tables
8. List of Figures
9. List of Plates (if any)

{(The above nine items are the preliminaries of the research report, which should be numbered in Roman small numbers at the bottom of the page e. g. i, ii, iii) Arabic numbers are used for the following items.}

- Chapter I : Introduction
1. A brief General Introduction
 2. Statement of the Research Problem
 3. Need / Significance / Importance of the Study
- Chapter II : It consists of Review of Literature (with an appropriate title)
 This chapter ends with General and Specific Objectives
- Chapter III : Methodology
 This chapter describes the various steps used in carrying out the research task. It is described in the past tense.
1. Chapter Introduction
 2. Field of Study.
 3. Pilot Study
 4. Research Design
 5. Selection of Sample
 6. Tools of Data Collection
 7. Sources of Data
 8. Pre testing
 9. Actual Data Collection
 10. Definition of Terms
 11. Analysis
 12. Limitations
 13. Organisation of the Report
- Chapter IV : Analysis and Interpretation
 This chapter presents the analyzed data either by a table or a chart and not both for the same variable. The variable name is given as a sub title, introduction of the variable, presentation of data (table No. and table title) analysis then interpretation of data. Interpretation is not mere description of the numbers into words but giving meaning for the data distribution.

Chapter V : Main Findings (Percentage in brackets) and Suggestions

Chapter VI : Summary and Conclusion

Bibliography : It is arranged in the alphabetical order by the author's name. Author's surname, year, title, place, publisher Appendix

PROJECT EVALUATION COMPONENT

Quality of the work (Record) - 50 Marks

Viva Presentation (Oral) - 50 Marks

II – M.S.W	BLOCK FIELD WORK PRACTICUM (INTERNSHIP)	19PSWF5
SEMESTER – IV		HRS: 1 Month
EXTENSION – III		CREDIT : 4

OBJECTIVE:

To have practical knowledge in different settings (NGO, Hospital and Industries).

COURSE OUTCOMES (COs)

After completing this course, students will:

CO1: Be applicable of practical knowledge in different settings.

CO2: Learn the role of HR manager in industries.

CO3: Learn the role of social worker in NGO settings.

CO4: Understand the role of medical social worker.

CO5: Be exposed to various skills in different settings.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER IV	COURSE CODE: 19PSWF5					COURSE TITLE:BLOCK FIELD WORK PRACTICUM					HOURS :1 Month	CREDIT S:4
COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					MEAN SCORE OF CO'S	
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	4	5	4	5	5	4	3	5	5	4.5	
CO2	5	3	5	4	5	5	5	3	5	5	4.5	
CO3	5	3	5	4	5	5	5	3	5	5	4.5	
CO4	5	3	5	4	5	5	5	3	5	5	4.5	
CO5	5	4	5	4	5	5	5	4	5	5	4.7	
Mean Overall Score											4.54	

Result: The Score of this Course is 4.54(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

The last month of the fourth semester the students go for block field placement training according to their fields of specialization (24 working days).

The student has to be part of the organization and take part in all the activities of the organization and undertake the assignments given to him.

After completion of one month placement the student submits an activity sheet, attendance certificate, daily reports to the department.

Every week the students write a report of their activities and submit to the concerned field work supervisor. The supervisor conducts individual and group conference every week regularly. At the end of the semester Viva- Voce is conducted by two examiners. 20 marks are being awarded by the internal faculty supervisor, 20 Marks are awarded by the Agency Supervisor and 60 marks are being awarded by the external examiner.

Block Field Work Practicum Marks Assessment

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Selecting the Agency, Report Submission, Agency Profile	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

THEORY EXAMINATION EVALUATION COMPONENT**Continuous Internal Assessment (CIA) (25)**

Assignment	-	5 Marks
Seminar	-	5 Marks
Two written Examination	-	15 Marks
Total	-	25 Marks

CIA Question Pattern (Written Examination)

Part – A (10X2=20)
(Answer all the Question)

Part – B (6X5=30)
(Answer all the Questions)

Semester Examination (75 Marks)**Question Pattern**

Time: 3 Hours

Max. Marks: 75

Section – A (10X2=20)
(Answer all the Question)
Two Questions from each unit

Section – B (5X5=25)
(Answer either a or b from each Question)
Five Questions from each unit

Section – C (3X10=30)
(Answer any three from five Questions)
Five Questions from each unit

EXAMINATION EVALUATION COMPONENT FOR SELF STUDY PAPERS

Assignment (2)	-	25 Marks
Seminar (2)	-	25 Marks
Two written Examination	-	50 Marks
Total	-	100 Marks

FIELD WORK PRACTICUM EVALUATION COMPONENT

S. No	Activity	Internal Marks	External Marks
1	Observation Visit, Street Theatre Training Programme & Group Project	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

CONCURRENT FIELD WORK PRACTICUM EVALUATION COMPONENT**Concurrent Field Work Practicum - I**

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Case Work, Group Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

Concurrent Field Work Practicum - II**Specialization - Community Development**

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Group Work, Community Organization Programme,	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

Specialization – Human Resource Management

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Role of Human Resource Management Department, Community Organization Programme,	40	
2	Presentation, Quality in Components, Communication		60
	Total	100	

Specialization - Medical and Psychiatric

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Case Work, Community Organization Programme,	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

Concurrent Field Work Practicum - III**Specialization - Community Development**

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Group Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

Specialization – Human Resource Management

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Role of Human Resource Management Department, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

Specialization - Medical and Psychiatric

S. No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Organization Profile, Case Work, Community Organization Programme	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

BLOCK FIELD WORK PRACTICUM EVALUATION COMPONENT

S.No	Assigned Work	Internal	External
		Faculty	External Examiner
1	Selecting the Agency, Report Submission, Agency Profile	40	
2	Presentation, Quality in Components, Communication		60
	Total		100

VALUE ADDED PROGRAMME**1. Eligibility for Admission to the Course**

A candidate who is pursuing the Bachelor Degree or Master Degree is accepted eligible to study this programme.

2. Duration of the Course

This course of Study shall be for a month with 2 credits. There will be 30 hours consisting of 1 teaching hour per working day.

3. The Course of Study

Theory Papers - The Course of the Master of Social Work shall be under the Semester System according to the Syllabus to be prescribed from time to time. This Course consists of Core Subjects and Elective Subjects.

4. Objectives:

The programme is designed with the following objectives:

- To acquire specific knowledge on NGO Management, folk arts and street play.
- To understand the Project Management Dimensions, Planning and the implementation of Projects.
- To enhance skills and techniques on Project Proposal Writing, street play and folk arts.

5. Scope

- a. By studying this programme the student will get knowledge on the following
 - NGO Management, Street play and folk arts
 - Project Management Dimensions, Planning and its implementation
 - Skills and Techniques of Project Evaluation or Resource Mobilization and street play as well as folk arts.
- b. The students will also get motivation to start a Nongovernmental Organization or be the trainer in folk arts and street play in the future.

DURATION – ONE MONTH	NGO MANAGEMENT	CODE: VASW02
		HRS: 30

OBJECTIVE:

To understand the concept of NGO and its Management.

COURSE OUTCOMES (COs)

On successful completion of the course the students should enrich their knowledge about

CO1: NGO Management

CO2: Project Management Dimensions, Planning and its implementation

CO3: Skills and Techniques of Project management Evaluation or Resource Mobilization.

CO4: Starting a Nongovernmental Organization of their own.

CO5: Knowledge on function of NGO through Field based visit to NGOs.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

DURATION – ONE MONTH	COURSE CODE: VASW02					COURSE TITLE: NGO MANAGEMENT					HOURS :30	CREDITS:
	COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					
PO 1		PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	2	5	3	5	5	4	3	5	5	4.2	
CO2	5	3	5	4	5	5	4	3	5	5	4.4	
CO3	5	3	5	4	5	5	5	4	4	5	4.5	
CO4	4	3	5	3	5	5	3	4	4	4	4	
CO5	4	2	4	3	4	5	4	3	4	4	3.7	
Mean Overall Score											4.16	

Result: The Score of this Course is 4.16(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Management: Meaning, Definition, Concepts, Objectives and Functions. NGO's: Meaning, Definition, Concepts, Vision, Mission, Goals, Types, Functions and Approaches. Role of NGO's in Community Development.

UNIT II

Legal - rational structure of Non-profits: Trusts and Societies with Special reference to Trust and Society Registration Acts- Foreign contributions and Regulation Act (FCRA) - Statutory Obligations- Income Tax Exemption (80-G, 12-A, & 35AC): Rules and Regulation - Resource Mobilization: Methods and Techniques of Fund Raising - International, National and Local Levels.

UNIT III

Leadership in the NGO's Context – Practice of Human resources Management in NGO's - Human Resources Management and role of creating change agents – Staffing, recruiting, induction and training- CSR Activities: Definition, concepts and need - Concentration areas of CSR - Role of social workers in CSR- National and International CSR activities: TVS, Infosys and Tata.

UNIT IV

Concept, Meaning, Definition and Types of projects – Projects Implementation and Management: Project Planning Matrix - Project Cycle Management - Identification and Formulation of Details Projects Report (DPP) with reference to Action AID and Save the Children- Rural Appraisal (PRA): Tools and Techniques, SWOC (Strengths, Weaknesses, Opportunities, and Challenges) Analysis.

UNIT V

3 Field based visits to NGOs in Cuddalore, Villupuram and Pondicherry regions.

TEXT BOOKS:

1. Allison, M. & Kaye, J. (2005). Strategic Planning for Nonprofit Organizations, 2nd ed. New York: John Wiley & Sons.
2. Batra, Nitin. 2004. Administration of social Welfare in India. Jaipur: Raj Publishing House.
3. Bhattachary, Sanjay. 2009. Social Work Administration and Development. New Delhi: Rawat Publication
4. Sooryamoorthy R and Gangrade K.D 2006 NGOs in India-A cross Sectional study New Delhi: Rawat Publications.
5. Suresh Chandra Anne Karen Trollope, 2015, Non Governmental Organization Origin and Development, Rawat Publications.

REFERENCE BOOKS::

1. Bradford W. Sheafor Charles J. Horejsi, 2011, Techniques and Guidance for Social Work Practice Ninth Edition, Eastern Economy Edition.
2. Robin Lall 2004 The Dynamics of NGO's New Delhi, Dominant Publishers.
3. Harihar Bhattacharya, Parthasarkar and AngshumanKar (eds) (2009) The Politics of Social Exclusion in India: Democracy at the Crossroads, Routledge.
4. P. Subba Rao, 2017. Management and Organization behavior (Text and Cases) Himalaya publishing House.
5. Samvel.C. Certo And S. TrevisCerto. Modern Management. Prentice Hall of India Pvt Ltd. 2007.
6. Sooryamoorthy R and Gangrade K.D. 2006. NGOs in India-A cross Sectional study New Delhi: Rawat Publication.

DURATION – ONE MONTH	FOLK ARTS	CODE: VASW03
		HRS: 30

OBJECTIVE:

To learn Folk Arts and tradition of India and Tamilnadu.

COURSE OUTCOMES (COs)

On successful completion of the course the students should enrich their knowledge about

CO1: Verbal and non-verbal communication

CO2: Culture and tradition of India and Tamilnadu.

CO3: Folk arts and its historical evolution.

CO4: Skills of Kargattam and Kummi

CO5: Skills of Kollattam and oyillattam.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

DURATION – ONE MONTH	COURSE CODE: VASW03					COURSE TITLE: FOLK ARTS					HOURS :30	CREDITS:
	COURSE OUTCOMES (CO)	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)					
PO 1		PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	2	5	3	5	5	4	3	5	5	4.2	
CO2	5	3	5	4	5	5	4	3	5	5	4.4	
CO3	5	3	5	4	5	5	5	4	4	5	4.5	
CO4	4	3	5	3	5	5	3	4	4	4	4	
CO5	4	2	4	3	4	5	4	3	4	4	3.7	
Mean Overall Score											4.16	

Result: The Score of this Course is 4.16(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT I

Communication: history, definition, functions and types. Nature Components and purposes. Verbal and Nonverbal communication. Public communication and Impact of Communication for social change.

UNIT II

Culture and Tradition: Definition, Nature and Importance. Media Forms and Techniques. Understanding various Media Forms: Theatre, Dance, Sculpture, Print, and Audio-Visual.

UNIT III

Folk Arts: concept definitions, types. Folk arts in India. Folk arts in Tamilnadu: Classification, History and recent trends.

UNIT IV

Major Folk Arts in Tamilnadu - 1: Kummi – meaning, History and recent trend. Karakattam - meaning, History and recent trend. Practical training on kummi and karakattam.

UNIT V

Major Folk Arts in Tamilnadu – 2 : Oyillattam - meaning, History and recent trend. Kollattam - meaning, History and recent trend. Practical training on kollattam and oyillattam.

TEXT BOOKS

1. Alan Pipes. 2003. Foundations of Art and Design, Laurence King Publishing, London.
2. Dhamija, J. 1970. Indian Folk Arts and Crafts. New Delhi: National Book Trust India.
3. Henry Glassie. 1995. The Spirit of Folk Art. New York.
4. Hernandez, Jo Farb. 2005. Forms of Tradition in Contemporary Spain. Jackson: University Press of Mississippi and San Jose State University.
5. Parmar, S. 1975. Traditional Folk Media in India. New Delhi: Geka Books.
6. U S Krishna Rao & U K Chandrabagha Devi. A Panorama of Indian Dances.

REFERENCE BOOKS:

1. ChithraMadhavan, History and Culture of Tamil Nadu, D.K. Print World Ltd.
2. Ezhilavan, Folk performing art of Tamil Nadu, Bio Green Books.
3. Krishnna, Nanditha, 1998, Folk arts of Tamilnadu: The performing arts, C.P. Ramaswami Aiyar Foundation.
4. S. M. I. Lakshmanan Chettiar, Folklore of Tamil Nadu.
5. S. Simon Jhon, Folk Narratives: Rituals and Performances reflect.
6. U S Krishna Rao & U K Chandrabagha Devi. A Panorama of Indian Dances.

DURATION – ONE MONTH	STREET PLAY	CODE: VASW04
		HRS: 30

OBJECTIVES:

To understand concept of street play and its relevance.

COURSE OUTCOMES (COs)

On successful completion of the course the students should enrich their knowledge about

CO1: Importance of communication.

CO2: Analysis of the self and the society.

CO3: Concept and story development.

CO4: Acting skills.

CO5: Concept of street and its relevance.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

DURATION – ONE MONTH	COURSE CODE: VASW04					COURSE TITLE: STREET PLAY					HOURS :30	CREDITS:
	PROGRAMME OUTCOMES (PO)					PROGRAMME SPECIFIC OUTCOMES (PSO)						
COURSE OUTCOMES (CO)	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5		
CO1	5	2	5	3	5	5	4	3	5	5	4.2	
CO2	5	3	5	4	5	5	4	3	5	5	4.4	
CO3	5	3	5	4	5	5	5	4	4	5	4.5	
CO4	4	3	5	3	5	5	3	4	4	4	4	
CO5	4	2	4	3	4	5	4	3	4	4	3.7	
Mean Overall Score											4.16	

Result: The Score of this Course is 4.16(Very High)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	$0 \leq \text{rating} \leq 1$	$1.1 \leq \text{rating} \leq 2$	$2.1 \leq \text{rating} \leq 3$	$3.1 \leq \text{rating} \leq 4$	$4.1 \leq \text{rating} \leq 5$
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT I

Communication: history, definition, functions and types. Nature Components and purposes. Verbal and Nonverbal communication. Public communication and Impact of Communication for social change.

UNIT II

Understanding Self. Strength and weakness; opportunity and threat, SWOT Analysis, goal setting. Analysis of Society: Individual, people and communities issues and challenges.

UNIT III

Understanding the Concept and Story Development: Concept Development - Concept Development and Realization-Concept Generation & Analysis. Creative thinking of concepts and Creative Thinking Techniques. The art of writing: Understanding the audience, context for writing, categories and characteristics of writing.

UNIT IV

Acting Skills: How to observe, act and emote. Understand and develop acting skills. Characterization, guiding principles for evolving effective and credible characters. Audience Analysis, Segmentation, Targeting and Positioning; Audience Research Demographics, Psychographics.

UNIT V

Street Play: Concept, evolution and principles. Street play for Social and political Issues. Strategy, methodology and Recent trends in Street Play. Tools for street play.

TEXT BOOKS:

1. DeVito Joseph A. 2000. Human Communication: The Basic Course, Harper & Row, London.
2. Dwight V.Swain. Creating Characters
3. Robert Hilliard. 1982. Writing for Television and Radio, Hasting House, New York.
4. Stephen W. Littlejohn& Karen A. Foss. 2010. Theories of Human Communication, Waveland Press, Inc., U.S.
5. Thomas S.Kane. The New Oxford Guide to Writing
6. Timothy Gerard. 1997. Writing for Multimedia: Entertainment Education, Training, Advertising and World Wide Web, Focal Press, Oxford.

REFERENCE BOOKS:

1. Charles Bukowsk , 2016, On Writing Paperback, Ecco; Reprint edition
2. Christopher Vogler,2007, The Writers Journey: Mythic Structure for Writers,Michael Wiese Productions.
3. Natalie Goldberg, Writing down the bones: freeing the writer within.
4. Roy Peter Clark, Writing Tools: 55 Essential stages for every writer.
5. Stanly Fish, 2012, How to Write a Sentence: And How to Read One Harper Paperbacks; Reprint edition.
6. Timothy Gerard. 1997. Writing for Multimedia: Entertainment Education, Training, Advertising and World Wide Web, Focal Press, Oxford.

QUESTION PATTERN FOR VALUE ADDED COURSES

SECTION - A **(10X2=20)**
Answer ALL Questions

SECTION - B **(5X6=30)**
Answer ALL Questions

II B.Sc Computer Science	STATISTICAL METHODS FOR COMPUTER APPLICATIONS PRACTICAL	ASCP401A
SEMESTER – III & IV		HRS/WK –2
ALLIED		CREDIT – 2

Objective:

To motivate the students to apply the statistical techniques in their respective major subjects.

COURSE OUTCOMES (CO's):

CO1: Construct Univariate and Bivariate frequency distributions, represent the statistical data and frequency distributions diagrammatically and graphically

CO2: Solve measures of Location, Dispersion and Skewness problems

CO3: Solve Karl Pearson's coefficients of correlation, Rank correlation and two regression equations problems

CO4: Solve fitting of Binomial, Poisson, Normal distributions (Area Method) and testing its goodness of fit. Set up the hypothesis for small sample test and large sample test problems and its mean, proportions problems and Chi square distributions

CO5: Solve and analyze ANOVA for CRD, RBD and LSD.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER-III & IV	COURSE CODE: ASCP401A				COURSE TITLE: STATISTICAL METHODS FOR COMPUTER APPLICATIONS PRACTICAL				HOURS:2	CREDIT:2
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES(PSO)				MEAN SCORE OF CO'S	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	4	4	4	4	4	4	4	4	4	
CO2	5	5	5	5	5	5	5	5	5	
CO3	4	4	4	4	5	5	5	5	4.5	
CO4	4	4	4	4	4	4	4	4	4	
CO5	5	5	5	5	5	5	5	5	5	
Mean Overall Score									4.5	

Result: The score of this Course is 4.5 (VERY HIGH)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome.

UNIT – I

Frequency distribution (samples of size not exceeding 50)

1. Univariate frequency distribution
2. Bivariate frequency distribution

Diagrammatic presentation of data

1. Simple bar diagram
2. Sub-divided bar diagram
3. Multiple bar diagram
4. Percentage bar diagram
5. Pie diagram

Graphical presentation of data

1. Histogram
2. Frequency polygon
3. Frequency curve
4. Ogive curve

UNIT – II

Measures of Central tendency

1. Computation of Arithmetic Mean
2. Computation of Median
3. Computation of Mode
4. Computation of Harmonic Mean
5. Computation of Geometric Mean

Measures of Dispersion

6. Computation of Quartile Deviation
1. Computation of Mean Deviation from Mean
2. Computation of Mean Deviation from Median
3. Computation of Standard Deviation
4. Computation of Combined Standard deviation (maximum 3 variables)
5. Computation of Coefficient of Variation

Measures of Skewness

1. Computation of Karl Pearson's coefficient of Skewness
2. Computation of Bowley's coefficient of Skewness
1. Computation of Kelly's coefficient of Skewness

UNIT – III

Correlation analysis

1. Computation of Karl-Pearson's Correlation co-efficient
2. Computation of Spearman's rank Correlation Coefficient
3. Computation of Spearman's rank Correlation Coefficient (Repeated ranks)

Regression analysis

1. Computation of Simple Regression equations

UNIT – IV

Fitting of distributions

1. Fitting of Binomial distribution
2. Fitting of Binomial distribution
3. Fitting of Poisson distribution
4. Fitting of Normal distributions (Area Method)

Test of Significance

1. Small sample test for single mean
2. Small sample test for difference of means
3. Paired t-test (paired samples)
4. Small sample test for single variance (χ^2 - test)
5. Small sample test for difference of variances (F-test)
6. Small sample test for correlation coefficient
7. Large sample test for single mean
8. Large sample test for difference of means
9. Large sample test for single proportion
10. Large sample test for difference of proportions
11. Large sample test for standard deviations
12. Large sample test for difference of standard deviations
13. Large sample test for correlation coefficient
14. χ^2 - test for goodness of fit and independence of attributes

UNIT – V

Design of Experiments

1. Analysis of Completely Randomized Design
2. Analysis of Randomized Block Design
3. Analysis of Latin Square Design

TEXT BOOKS:

1. “Statistical Methods” (43rd edition - 2014), Gupta. S. P., Sultan Chand & Sons, New Delhi.
2. “Fundamentals of Applied Statistics” (2nd edition – 1978), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.

REFERENCE BOOKS:

1. “Fundamentals of Applied Statistics” (2nd edition – 1978), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.
2. “Statistics (Theory and Practice)” (3rd edition - 1993), Pillai. R. S. N. and Bagavathi. V. Sultan Chand & Sons, New Delhi.
3. “Fundamentals of Statistics – Volume II” (6th edition - 1990), Goon. A. M., Gupta. M. K. and Dass Gupta. B, The World Press Private Ltd., Calcutta.
4. “Business Statistics” (1st edition – 2008), Bharat Jhunjhunwala, S. Chand & Company Ltd.
5. “Mathematical Statistics” (1st edition – 2002), Vittal. P. R., Margham Publications, Chennai

II BBM/ II B.Com	BUSINESS STATISTICS	SBM301A/ASCM301A
SEMESTER – III		HRS/WK – 6
ALLIED		CREDIT – 4

Objective:

To motivate the students to apply the statistical techniques in their respective major subjects.

COURSE OUTCOMES (CO's):

CO1: Understand the concept of collection of data, classification, tabulation and measures of central tendency

CO2: Understand the concept of measures of dispersion

CO3: Understand the concept of Correlation, Regression and its uses in various fields

CO4: Understand the concept of index number, constructing, trending, learning and predicting situation based on period

CO5: Understand the concept of time series, formation of trend, planning trend line and learning measures of seasonal variation time.

Relationship Matrix Course Outcomes, Programme Outcomes and Programme Specific Outcomes

SEMESTER-III	COURSE CODE: ASBM301A/ASCM301A				COURSE TITLE: BUSINESS STATISTICS				HOURS:5	CREDIT:4
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES(PSO)				MEAN SCORE OF CO'S	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	4	4	4	4	4	4	4	4	4	
CO2	5	5	5	5	5	5	5	5	5	
CO3	4	4	4	4	5	5	5	5	4.5	
CO4	4	4	4	4	4	4	4	4	4	
CO5	5	5	5	5	5	5	5	5	5	
Mean Overall Score									4.5	

Result: The score of this Course is 4.5 (VERY HIGH)

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	$0 \leq \text{rating} \leq 1$	$1.1 \leq \text{rating} \leq 2$	$2.1 \leq \text{rating} \leq 3$	$3.1 \leq \text{rating} \leq 4$	$4.1 \leq \text{rating} \leq 5$
Rating	Very Poor	Poor	Moderate	High	Very High

This Course is having **VERY HIGH** association with Programme Outcome and Programme Specific Outcome

UNIT – I

Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data – Classification and Tabulation of Statistical data. Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.

UNIT – II

Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation. Measures of Skewness: Karl Pearson's and Bowley's methods.

UNIT – III

Correlation: Karl Pearson's coefficient of correlation, Spearman's rank correlation coefficient and Concurrent deviation method. Regression analysis: Simple regression equations.

UNIT – IV

Index numbers–Uses of index numbers–Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers – Simple Aggregative Method – Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices – Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only).

UNIT –V

Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly) – Least Square Method (Fitting of straight line). Measurement of Seasonal Variation: Method of Simple Averages – Ratio-to-trend Method .

TEXT BOOKS:

1. “Statistical Methods” (32nd edition - 2004), Gupta. S. P., Sultan Chand & Sons, New Delhi.
2. “Business Statistics”, Gupta. S. P., Gupta. P. K. and Manmohan.

REFERENCE BOOKS:

1. “Index Numbers, Applied Statistics” (2nd edition), Mudgett Gupta. O. P. & Ansari. M. A., Kadarnath&Co.
 2. “Fundamentals of Statistics – Volume II” (6th edition - 1990), Goon. A. M., Gupta. M. K. and Dass Gupta. B, The World Press Private Ltd., Calcutta.
- “Business Statistics” (1st edition – 2008), Bharat Jhunjunwala, S. Chand & Company Ltd.

YEAR – II	STATISTICAL METHODS FOR COMPUTER APPLICATIONS PRACTICAL	ASCSP402T
SEMESTER – III & IV		HRS/WEEK –2
ALLIED		CREDITS – 2

Course Outcomes:

At the end of the Course the students will be able to

- CO1: Construct Univariate and Bivariate frequency distributions, represent the statistical data and frequency distributions diagrammatically and graphically.
- CO2: Solve measures of Location, Dispersion, Skewness and Kurtosis problems.
- CO3: Solve Curve fitting, Karl Pearson’s coefficients of correlation, Rank correlation and two regression equations problems.
- CO4: Solve fitting of Binomial, Poisson, Normal distributions (Area Method) and testing its goodness of fit. Set up the hypothesis for small sample test and large sample test problems and its mean, proportions problems and Chi square distributions.
- CO5: Solve and analyze ANOVA for CRD, RBD and LSD.

SEMESTER-III & IV	COURSE CODE: ASCSP402T				TITLE OF THE PAPER: STATISTICAL METHODS FOR COMPUTER APPLICATIONS PRACTICAL				HOURS:2	CREDITS:2
COURSE OUTCOMES	PROGRAMME OUTCOMES(PO)				PROGRAMME SPECIFIC OUTCOMES(PSO)				MEAN SCORE OF CO’S	
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	4	4	4	4	4	4	4	4	4	
CO2	5	5	5	5	5	5	5	5	5	
CO3	4	4	4	4	5	5	5	5	4.5	
CO4	4	4	4	4	4	4	4	4	4	
CO5	5	5	5	5	5	5	5	5	5	
Mean Overall Score									4.5	

Result: This Course is having VERY HIGH association with Programme Outcome and Programme Specific Outcome

Association	1%-20%	21%-40%	41%-60%	61%-80%	81%-100%
Scale	1	2	3	4	5
Interval	0<=rating<=1	1.1<=rating<=2	2.1<=rating<=3	3.1<=rating<=4	4.1<=rating<=5
Rating	Very Poor	Poor	Moderate	High	Very High

UNIT – I

Construction of Univariate and Bivariate frequency distributions with samples of size not exceeding 50. Diagrammatic and Graphical representation of various statistical data and frequency distributions. Cumulative frequency curve and Lorenz curve.

UNIT – II

Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation. Measures of Skewness: Karl Pearson's coefficient of Skewness, Bowley's coefficient of Skewness and Kelly's coefficient of Skewness. Kurtosis based on moments.

UNIT – III

Curve fitting by the method of least squares, fitting of Straight line, fitting of Second degree polynomial, fitting of Power curve and fitting of Exponential curves. Computation of Karl-Pearson's Correlation co-efficient, Rank Correlation Coefficient. Simple regression equations.

UNIT – IV

Fitting of Binomial, Poisson, Normal distributions (Area Method) and testing its goodness of fit. Exact tests based on t and F distributions with regard to Mean, Variance and Correlation Coefficient. Large sample tests: Based of Mean and Proportions. Chi-Square distribution: Test for independence of attributes.

UNIT –V

Design of Experiments: CRD, RBD and LSD.

Text Books:

1. "Statistical Methods" (32nd edition - 2004), Gupta. S. P., Sultan Chand & Sons, New Delhi.
2. "Fundamentals of Applied Statistics" (2nd edition – 1978), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.
3. "Practical Statistics" (2nd edition – 2003), Pillai. R.S.N and Bagavathi, Sultan Chand & Sons, New Delhi.

Reference Books:

1. "Fundamentals of Applied Statistics" (2nd edition – 1978), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.
2. "Statistics (Theory and Practice)" (3rd edition - 1993), Pillai. R. S. N. and Bagavathi. V. Sultan Chand & Sons, New Delhi.
3. "Fundamentals of Statistics – Volume II" (6th edition - 1990), Goon. A. M., Gupta. M. K. and Dass Gupta. B, The World Press Private Ltd., Calcutta.
4. "Business Statistics" (1st edition – 2008), Bharat Jhunjunwala, S. Chand & Company Ltd.
5. "Mathematical Statistics" (1st edition – 2002), Vittal. P. R., Margham Publications, Chennai