

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***Inid 2020* Level 1  
*INnovative IBeas 2020***

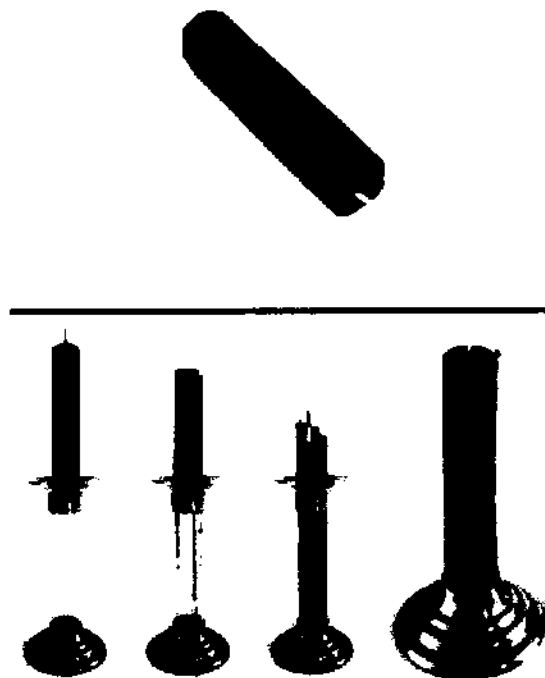
**A mega event for displaying innovative ideas ... !**

**Sample Idea**



**THE CANDLESTICK HOLDER THAT PRODUCES NEW CANDLES**

Designer Benjamin Shine's Rekindle candlestick holder makes recycling candles as easy as child's play. The Rekindle collects the wax from a burning candle and once it's done, all you have to do is insert a new wick, and a new candle is born. While the process can be repeated numerous times, the basic laws of chemistry mean that the candle will get slightly shorter each time as the amount of wax decreases slightly.



<https://www.goodnet.org/articles/7-examples-everyday-items-transformed-into-extraordinary-life-changing-innovations-list>

*Research Development Cell (RDC)*  
*St. Joseph's College of Arts and Science (Autonomous)*  
*Cuddalore - 1*

***inid 2020*** Level 1  
***INnovative IDEas 2020***

**A mega event for displaying innovative ideas ... !**

What are the Themes ...

Computer Science

Biological Science

Environmental Science

Electrical and Electronics

Chemical Science

Mathematical Science

Physical Science

Engineering

Who can participate ...

Any student of our college ... Any Department ... Any year ...

What can be proposed ...

New design ... New process / Methods ... Scientific solution for problems ... Novel ideas ... Enhanced process / methods ... Simple alternative technologies for existing methods ... Waste recycling ...

What cannot be proposed ...

Scientific models ... Research Projects ... Business ideas ...

What are the benefits ...

Incubation of ideas ... Developing rapport with Investors and Sponsors ... Technical support ... Mentors ... Seed money for viable ideas ...

How to apply ...

Participate either as an individual or as a team

Apply in the given format available in RDC

When to apply

Last date for submission of proposals – 26.2.2020

Level 1 Presentation on 28.2.2020

Whom to contact ...

Dr. Joseph C. Daniel

Coordinator, Research Development Cell & Head, Department of Microbiology

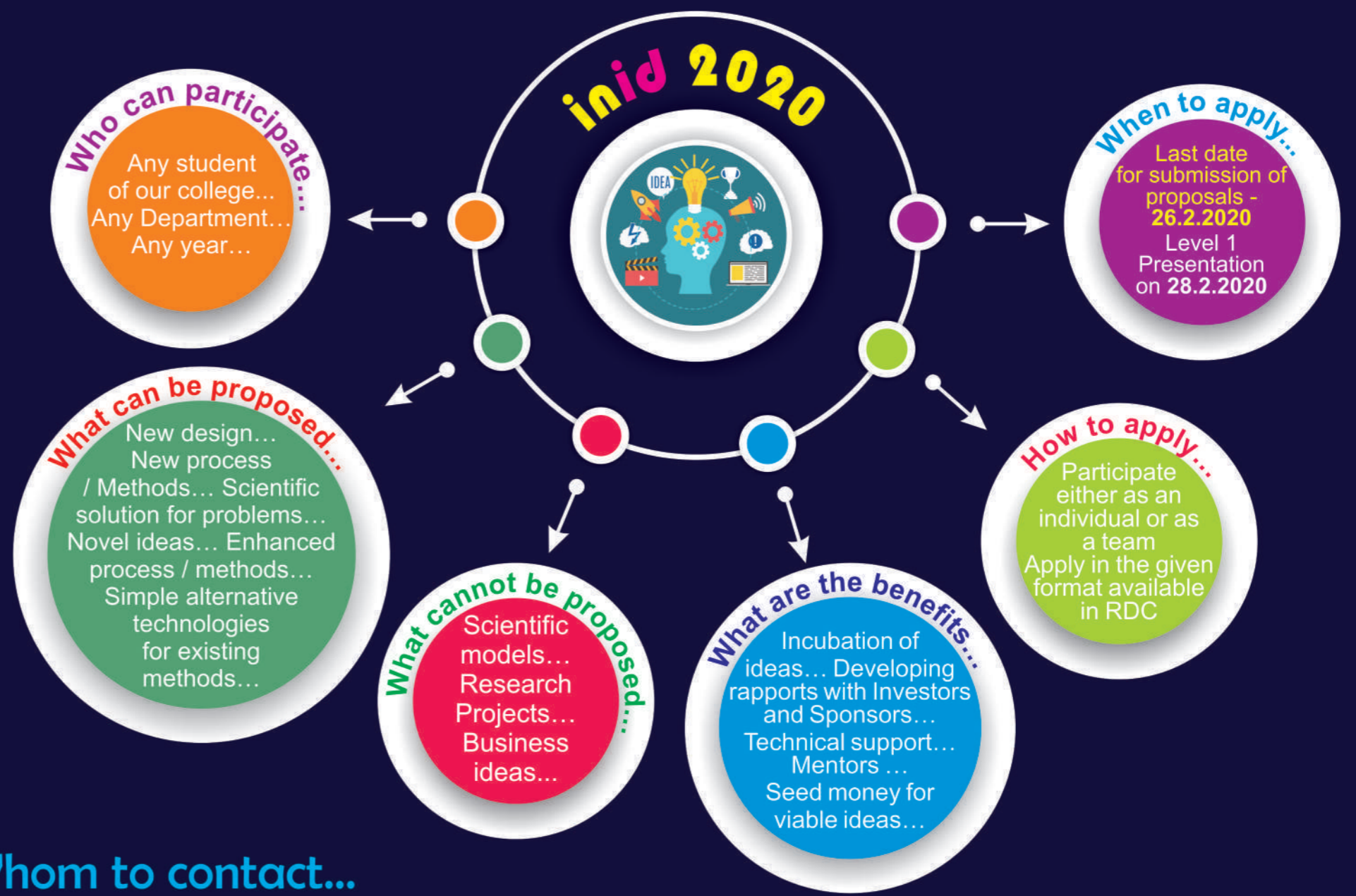
St. Joseph's College of Arts and Science (Autonomous), Cuddalore





# A mega event for displaying innovative ideas ... !

## inid 2020 Innovative IDEas 2020



**What are the Themes ...**

- Mathematical Science
- Chemical Science
- Physical Science
- Biological Science
- Environmental Science
- Computer Science
- Electrical and Electronics Engineering

### Whom to contact...

**Dr. Joseph C. Daniel**  
Coordinator, Research Development Cell &  
Head, Department of Microbiology  
St. Joseph's College of Arts and Science (Autonomous),  
Cuddalore - 607 001.

**Research Development Cell (RDC)**  
**St. Joseph's College of Arts and Science (Autonomous),**  
**Cuddalore - 607 001.**

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* level 1**

**Format for Proposal**

Theme:

Name of the student (Leader):

Register No.:

Mobile No.:

Class:

Email ID:

Name of the student:

Register No.:

Class:

Name of the student:

Register No.:

Class:

Name of the Mentor (Staff):

Designation:

Department:

Title of the concept:

Objective:

Background/ Existing Background:

Proposed Plan:

Duration of the Project:

Materials/ Instruments required:

Budget:

Expected Outcome:

Signature of the student: 1.

2.

3.



**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

**Theme:** House for rent trackers using voice recognition.

**Name of the student (Leader):** Gayathri.R

**Register No.:** A17CAEB11

**Mobile No.:** 9025798697

**Class:** III-BCA-'B'

**EmailID:** gayathrirr99@gmail.com

**Name of the student:** Rixey preem.D

**Register No.:** A17CAEB27

**Class:** III-BCA-'B'

**Name of the student:** Sasirekha.S

**Register No.:** A17CAEB30

**Class:** III-BCA-'B'

**Name of the Mentor (Staff):** Mrs.R. Vidhya Lakshmi

**Designation:** Assistant Professor

**Department:** BCA

**Title of the concept:** Online House for rent trackers based on their needs.

**Objective:**

A majority of unpleasant issues faced by landlords and tenants seem to grow due to lack of communication. We offer voice recognition so that people can easily interact. Even an uneducated people can easily use this without difficulties. Late rent payments turns into an eviction. A non-functional AC or a broken window becomes a reason to break a lease. Fortunately, building a positive relationship doesn't take much effort and it all starts with one basic idea: communication. Rental Property Management app provides the solution by offering the ability to share issues between tenants and landlords which leads to rapid issue resolution and fewer misunderstanding. The goal of the app is to create a better relationship between tenants and landlord. The Rental Property Management app is designed to support both tenants and landlords by enabling them to document and communicate repair issues, send automatic rent reminders, package notifications and emergency information.

It helps the tenant with making Payments and it also helps the Landlord to keep track of issues posted by tenants. Effectively resolving the apartment issues is important to the tenant's long term future and the Rental Property Management app will be an important tool for creating

2802

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE(AUTONOMOUS)**  
**CUDDALORE - 1**

***inid2020* Level 1**

**Format for Proposal**

Theme: Agriculture for seeds cultivation

Name of the student (Leader): vijayaLakshmi.A  
Register No.: A17CAEB36  
Mobile No.: 9384107605

Class: 3<sup>rd</sup> BCA "B"  
Email ID: susiviji007@gmail.com

Name of the student: Mohanapriya.S  
Register No.: A17CAEB20

Class: 3rd BCA" B"

Name of the Mentor (Staff): Ms.Padmavathi  
Designation: Assistant Professor

Department: BCA

Title of the concept: App for assisting farmers in seeds cultivation.

**Objective:**

App for assisting farmers in selecting seeds cultivation. The aim of the project is to assist the farmer regarding the information of seeds and the way it should be cultivated. The app is easy to access by the illiterate people using voice recognition. It is easy to handle for the farmers. Our project helps the farmers by giving various ideas about the information of seeds through phone. This app is also says information about the unknown seeds using image of the particular seed. Furthermore the farmer can chat with us regarding their queries using our app through phone. And also they can give the feedback about the app. This app is user friendly and hence it will be carried by two way communication. And also the user can post their ideas through phone.

**Background/ Existing Background:**

The existing project says about the information of land. Our app says about the information about the unknown seeds which is suitable for particular location.

**Proposed Plan:**

**I. Requirement phase**

This app is developed in the time span of three months. The first two weeks information needed for the app development is collected. for example : data collected from farmers.

C903

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid2020* Level 1**

**Format for Proposal**

**Theme:** Green Society

**Name of the student (Leader):** AJAY KIRAN. R

**Register No.:** A17CADA02

**Class:** III BCA A

**Mobile No.:** 9487769745

**Email ID:** [antonyajaykiran@gmail.com](mailto:antonyajaykiran@gmail.com)

**Name of the student:** NAVEENKUMAR. S

**Register No.:** A17CADA37

**Class:** III BCA A

**Name of the student:** KISHORE. R

**Register No.:** A17CADB22

**Class:** III BCA B

**Name of the Mentor (Staff):** A. JOHN PRADEEP EBENEZER

**Designation:** HOD & ASST. PROFESSOR

**Department:** DEPT OF COMPUTER APPLICATIONS

**Title of the concept:** An IoT abled system to monitor the water level and prevent deforestation.

**Objective:** The main objective of this research is to prevent society from the global warming and helps to save the trees from dryness and illegally cutting. This project will be helpful to all the land owners and farmers also. This will alert any in-charge or any specified persons whenever the tree gets the forcible vibration.

**Background/ Existing Background:** This is a novel idea so no such existing algorithms exist.

**Proposed Plan:**

SNO	PROCESS	SCHEDULE
1	REQUIREMENT ANALYSIS	MARCH 1 <sup>ST</sup> TO MARCH 15 <sup>TH</sup>
2	DESIGNING	MARCH 15 <sup>TH</sup> TO MARCH 31 <sup>ST</sup>

CS04

# inid 2020 Level 1

## Format for Proposal

Theme: Ethical Social Networking

Name of the student (Leader): JayaPrakash  
Register No.: AITCADA19 Class: III BCA - A  
Mobile No.: 9943179857 Email ID: J.jayaprakash@aol.com

Name of the student:  
Register No.: Class:

Name of the student:  
Register No.: Class:

Name of the Mentor (Staff): Z. John Bernard Department: BCA  
Designation: Mst. Prof.

Title of the concept: Ethical Social Networking System

Objective: To design an Social Networking software which  
Blocks the spread of Fake News.

Background/ Existing Background:

Proposed Plan:

Duration of the Project: 3 months.

Materials/ Instruments required: S/W Required: Python, Machine Learning

Budget: Rs. 10,000/-

Expected Outcome: A Social Networking Platform which takes  
care of all ethical issues.

Signature of the student:

1. JayaPrakash
- 2.
- 3.



23.05

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

**Theme:** Innovative Teaching Learning Technology

**Name of the student (Leader):** P.T. DHANARAJ

**Register No.:** A18CADA09

**Mobile No.:** 9600239402

**Class:** II BCA A

**Email ID:** dhanrajpalanimahesh@gmail.com

**Name of the student:** ZAHEER AHAMED

**Register No.:** A18CADA34

**Class:** II BCA A

**Name of the Mentor (Staff):** A. JOHN PRADEEP EBENEZER

**Designation:** HOD & ASST. PROFESSOR      **Department:** DEPT OF COMPUTER APPLICATIONS

**Title of the concept:** AUTOMATIC VIDEO TUTORIAL CONSTRUCTION TECHNIQUE USING QUESTION EXTRACTION

**Objective:** The main objective of this research is to extract the questions from the question paper and convert into text. The converted text is searched used novel searching algorithm, which displays the desired video tutorial to the students.

**Background/ Existing Background:** This is a novel idea so no such existing algorithms exist.

**Proposed Plan:**

SNO	PROCESS	SCHEDULE
1	REQUIREMENT ANALYSIS	MARCH 1 <sup>ST</sup> TO MARCH 15 <sup>TH</sup>
2	DESIGNING	MARCH 15 <sup>TH</sup> TO MARCH 31 <sup>ST</sup>
3	CODING	APRIL 1 <sup>ST</sup> TO APRIL 30 <sup>TH</sup>
4	TESTING	MAY 1 <sup>ST</sup> TO MAY 15 <sup>TH</sup>
5	IMPLEMENTATION	MONTH OF JUNE

CS06

RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - I

**inid 2020** Level 1

Format for Proposal

Theme:

Name of the student (Leader): A. Anand Joshua  
Register No.: A17CMDA02 Class: III-B.COM 'A' (SHIFT-1)  
Mobile No.: 7094286092 Email ID: anandjoshua.2014@gmail.com

Name of the student: ASIBI SELVAM  
Register No.: A17CMDA04 Class: III-B.COM 'A' (SHIFT-1)

Name of the student: D. V. GOBINATHI  
Register No.: A17CMDA14 Class: III-B.COM 'A' (SHIFT-1)

Name of the Mentor (Staff): P. Vaitinadani  
Designation: ASST. PROF of COMM Department: PG AND RESEARCH DEPT. OF COMMERCE

Title of the concept: Economic Data Compilation Software (EDCS)

Objective: Provide Economic Datas

Background/ Existing Background:

Proposed Plan:

Duration of the Project: 1 Year

Materials/ Instruments required: Computer & Softwares

Budget: 15 L

Expected Outcome:

Signature of the student:  
1. [Signature]  
2. [Signature]  
3. [Signature]

CS07

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - I**

***inid 2020*** Level 1

**Format for Proposal**

**Theme:** Syllabus Revision Monitoring System

**Name of the student (Leader):** Parameshwari.A

**Register No.:** A19MIT09

**Mobile No.:** 8838421273

**Class:** I-Msc IT

**Email ID:** param071998@gmail.com

**Name of the student:** Nivedha.K

**Register No.:** A19MIT08

**Class:** I-Msc IT

**Name of the student:**

**Register No.:**

**Class:**

**Name of the Mentor (Staff):** Z.John Bernard

**Designation:** Assistant Proffessor

**Department:** BCA

**Title of the concept:** Syllabus Revision Monitoring System

**Objective:** The main objective of the project is compares the current and previous syllabus and calculate the percentage of Rivision

**Background/ Existing Background:** No such a software exist

**Proposed Plan:**

SNO	PROCESS	SCHEDULE
1	REQUIREMENT ANALYSIS	MARCH 1 <sup>ST</sup> TO MARCH 15 <sup>TH</sup>
2	DESIGNING	MARCH 15 <sup>TH</sup> TO MARCH 31 <sup>ST</sup>
3	CODING	APRIL 1 <sup>ST</sup> TO APRIL 30 <sup>TH</sup>
4	TESTING	MAY 1 <sup>ST</sup> TO MAY 15 <sup>TH</sup>
5	IMPLEMENTATION	MONTH OF JUNE

CSD 8

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme:

Name of the student (Leader): NAJLA. L

Register No.: A18CSEA24

Mobile No.: 8124309790

Class: I-B. SC. COMPUTER SCIENCE

Email ID: NaJla9101@gmail.com

Name of the student: NAJLA. L

Register No.: A18CSEA24

Class: I-B. SC. COMPUTER SCIENCE

Name of the student: TAMIL MULLAI. M

Register No.: A18CSEA47

Class: I-B. SC. COMPUTER SCIENCE

Name of the Mentor (Staff): Dr. R. VIJAYA

Designation:

Department: Department of

Title of the concept: AiA Device

computer science

Objective: IOT USING ARDUINO IN AGRICULTURE.

Background/ Existing Background:

It is practicing in Malaysia.

Proposed Plan:

To complete the AiA Device.

Duration of the Project: 1 year

5 min.

CS09

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - I**

***inid 2020*** Level 1

Format for Proposal

Theme:

Name of the student (Leader): **GAYATHRI SRIDHAR**  
Register No.: **A18CSEAB2** Class: **II - B.Sc. CS**  
Mobile No.: Email ID:

Name of the student: **GAYATHRI SRIDHAR**  
Register No.: **A18CSEAB2** Class: **II - B.Sc. Computer Science**

Name of the student: **Hemavathi . J**  
Register No.: **A18CSEA12** Class: **II - B.Sc. Computer Science**

Name of the Mentor (Staff): **Dr. R. Vidya** Department: **B.Sc. Computer Science**  
Designation:

Title of the concept: **LIFI In tech**

Objective: **Transmission of data & internet streaming using visible light.**

Background/ Existing Background:

**It is implemented in Russia**

Proposed Plan:

**To increase the data speed.**

Duration of the Project:

**1 year**



CS10

**RESEARCH DEVELOPMENT CELL (RDC)  
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CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: **IOT SMART HOME**

Name of the student (Leader): **UMAR FAROOK . A . N**  
Register No.: **A1BCSDC47** Class: **II - CS "C"**  
Mobile No.: **8428050376** Email ID: **aumayfarook13@gmail.com**

Name of the student: **DINESHKUMAR . R . A**  
Register No.: **A1BCSDC43** Class: **II - CS "C"**

Name of the student:  
Register No.: Class:

Name of the Mentor (Staff): **DR. R. VIDYA, MR. S. ANTONY JONES**  
Designation: Department: **Computer Science**

Title of the concept: **IOT SMART HOME**

Objective:  
**The application is developed for modern world**

Background/ Existing Background:

Proposed Plan:

Duration of the Project:

CS11

**RESEARCH DEVELOPMENT CELL (RDC)  
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CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: A DESIGN OF EARLY WARNING SYSTEM to IDENTIFY VISIT OF PORN SITE

Name of the student (Leader): JAYA KUMAR . I

Register No.: A19MCS09

Mobile No.: 9787721361

Class:

I . MSc

Email ID:

Jayakum25@gmail.com

Name of the student: PRAGIATHI . K

Register No.: A19MCS19

Class:

I . MSc

Name of the student: NITHIYANANDHAN . K

Register No.: A19MCS16

Class:

I . MSc

Name of the Mentor (Staff): Dr. T. MIRANDA LAKSHMI

Designation:

Department: COMPUTER SCIENCE

Title of the concept:

Objective: TO IDENTIFY THE BOTH UPLOADER AND VISITOR OF CHILD

Background/ Existing Background:

our INDIA recently affected by PORN VIDEOS  
child pornography so implementing this project to avoid that.

Proposed Plan:

Helping For cyber department to identify the  
child pornography criminals.

Duration of the Project: 15 days

CS12

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - I**

***inid 2020* Level 1**

**Format for Proposal**

Theme: Fuel level Indication at reserved state.

Name of the student (Leader): E.VITHYA

Register No.: A17CSEA50

Class: III - CSE - 'A'

Mobile No.: 8608625308

Email ID: vithya2017cs@gmail.com

Name of the student: S.RAJINIARTHI

Register No.: A17CSEA27

Class: III - CSE - 'A'

Name of the student: L.SUBHIKSHA

Register No.: A19CSEA48

Class: I - CSE - 'A'

Name of the Mentor (Staff): Dr. T. Myranda Lakshmi

Designation: Asst. Professor

Department: COMPUTER SCIENCE

Title of the concept: Fuel level Indicator.

Objective: Fuel level detection & Indication in reserved stage

Background/ Existing Background:

Existing model - with limitations.

Proposed Plan:

Implement The model.

Duration of the Project:

BS04

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - I**

***inid 2020* Level 1**

**Format for Proposal**

Theme: **POWER GENERATION FROM THE WEED PLANT**

Name of the student (Leader):

**S. MANIKANNAN**

Register No.: **A19ZOD19**

Class:

**I ZOD (Zoology)**

Mobile No.:

**68807 49835**

Email ID:

**manikannan0725@gmail.com**

Name of the student:

**C. KARTHICK**

Register No.:

**A19ZOD16**

Class:

**I ZOD**

Name of the student:

**S. DURAIMURUGAN**

Register No.:

**A19ZOD10**

Class:

**I ZOD**

Name of the Mentor (Staff):

**DR. T. GANESH KUMAR**

Designation:

**ASSISTANT PROFESSOR**

Department:

**ZOOLOGY**

Title of the concept:

**GENERATION OF ELECTRICITY FROM THE PERNICIOUS WEED PLANT**

Objective:

**PARTHENIUM**

**GENERATION OF ELECTRICITY IN A COST EFFECTIVE METHOD**

Background/ Existing Background:

**Parthenium is a pernicious weed, which is spreading rapidly to the livestock and human being. Thus, we are trying to utilize this weed into generation of electricity.**

Proposed Plan:

**We are going to utilize the weed plant into generation of electricity in a cost effective method.**

Duration of the Project:

**1-2 months**

BS05

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: HYDROPONICS

Name of the student (Leader): D. PREM KUMAR

Register No.: AIQZOD47

Mobile No.: 93611 53406

Class:

I ZOD [zoology]

Email ID:

basapremkumar@gmail.com

Name of the student:

Register No.: AIQZOD21

P. SARAVANAN

Class:

I ZOD

Name of the student:

Register No.: AIQZOD44

A. ARAVIND

Class:

I ZOD

Name of the Mentor (Staff):

Dr. T. GANESH KUMAR

Designation: ASSISTANT PROFESSOR

Department: ZOOLOGY

Title of the concept: GROWING VEGETABLES IN WATER WITHOUT SOIL

Objective: SOILLESS AGRICULTURE

Background/ Existing Background:

Hydroponics is a technique of hydroculture which is a method of growing plants without soil.

Proposed Plan:

We are going to use mineral nutrient solutions in water solvent (instead of using soil) to grow the vegetable

Duration of the Project:

4-5 months period



PH01

**RESEARCH DEVELOPMENT CELL (RDC)  
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CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: 1) *Chemical Science.*

2) *Electrical and Electronics.*

Name of the student (Leader): *Afeen Thaslimma. J*

Register No.: *AITENE B01* Class: *III - English.*

Mobile No.: *9894 317085* Email ID: *thaslimma@ gmail . com*

Name of the student: *R. Shanalakshmi*

Register No.: *AITENE C02* Class: *III - english.*

Name of the student: *R. KANIMOZHI.*

Register No.: *AITENEAM* Class: *III - English 'A'*

Name of the Mentor (Staff):

Designation:

Department:

Title of the concept: 1) *Air cooler. (Mini)*

2) *White - Fuel.*

Objective: 1) *To save current.*

2) *To save money.*  
Background/ Existing Background

Proposed Plan:

Duration of the Project:

Materials/ Instruments required:

Budget:

Expected Outcome:

Signature of the student:

1. *T. Afeen Thaslimma*
2. *R. Shanalakshmi*
3. *R. Rishi.*

PH02.

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: SEA WATER FARMING

Name of the student (Leader): SIVA PRAKASH . M

Register No.: A19PHD39

Class: I - B.Sc PHYSICS

Mobile No.: 6382402026

Email ID: swapnakash4235@gmail.com

Name of the student: EZHILARASAN . R

Register No.: A19PHD19

Class: I - B.Sc PHYSICS

Name of the student: MATHIVANAN . S.R

Register No.: A19PHD27

Class: I - B.Sc PHYSICS

Name of the Mentor (Staff):

Designation:

Department: PHYSICS

Title of the concept: FARMING

Objective:

Background/ Existing Background:

Proposed Plan:

Duration of the Project: ONE DAY

Materials/ Instruments required: FISH TANK, PLASTIC BOTTLE, SEA WATER, SEEDS

Budget: 250/-

Expected Outcome:

Signature of the student:

1. M. Swapnakash
2. S.R. Mathivanan
3. K. Mohan
4. R. Anithyan

PH03

RESEARCH DEVELOPMENT CELL (RDC)  
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CUDDALORE - 1

**inid 2020** Level 1

Format for Proposal

Theme: DATA TRANSMISSION

Name of the student (Leader): N. SHIEK SHAMS NUSARAT  
Register No.: A18PHD42 Class: II. B.Sc PHYSICS  
Mobile No.: 9789769083 Email ID: shieknusarat@gmail.com

Name of the student:  
Register No.: Class:

Name of the student:  
Register No.: Class:

Name of the Mentor (Staff): JUDE LEONARDY.H.  
Designation: Asst Prof Department: PHYSICS.

Title of the concept: DATA TRANSMISSION USING MOBILE FLASH LIGHT.

Objective: TO TRANSMIT DATA IN HIGH SPEED.

Background/ Existing Background: LIFFI - TECHNOLOGY

Proposed Plan:

Duration of the Project: 2 WEEKS

Materials/ Instruments required: ARDUINO NANO , 12\*6 LCD , TRANSPARENT

Budget: 1000 /- SOLAR PANEL  
(\* UNAVAILABLE IN INDIA)

Expected Outcome:

Signature of the student: 1. N. Shiek Shams  
2.  
3.

PHO 4

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: *Chemical science; electrical and electronics*

Name of the student (Leader):

*V. Julia Mary*

Register No.: *A18ENEC23*

Class: *B.A. English*

Mobile No.: *8056561214*

Email ID: *Hasinij1539@gmail.com*

Name of the student: *L. Keethika*

Register No.: *A18ENEC26*

Class: *B.A. English*

Name of the student: *R. Vandhini*

Register No.: *A18ENEC31*

Class: *B.A. English*

Name of the Mentor (Staff):

Designation:

Department:

Title of the concept: *To produce combustible gas?*

Objective: *To produce gas*

Background/ Existing Background:

Proposed Plan: *To produce gas*

Duration of the Project:

Materials/ Instruments required: *water bottle, water, petrol, tubes, motor*

Budget: *egum etc...*

Expected Outcome:

Signature of the student: 1.  
2.  
3.

PH05

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* level 1**

**Format for Proposal**

Theme: **MASSAGE BED**

Name of the student (Leader): **K. JAGATH GURU**

Register No.: **A19PHD22**

Class: **I - B.Sc. Physics**

Mobile No.: **8825926705**

Email ID: **st19Phd22@gmail.com**

Name of the student: **P. Vengatesh**

Register No.: **A19PHD48**

Class: **I - B.Sc. Physics**

Name of the student: **P. Vignesh**

Register No.: **A19PHD50**

Class: **I - B.Sc. Physics**

Name of the Mentor (Staff): **Dr S. Sebastian**

Designation:

Department: **Physics**

Title of the concept: **MASSAGE BED**

Objective:

Background/ Existing Background:

Proposed Plan:

Duration of the Project:

Materials/ Instruments required:

Budget:

Expected Outcome:

Signature of the student:

1. **K. Jagathguru**
2. **K. Biju**
3. **A. Aravind**
4. **Vijayakumar.M**
5. **P. Vengatesh**



PH06

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

**Theme:** COOL WATER BY REFRIGERATOR

**Name of the student (Leader):** ANUSUYA . S

**Register No.:** A17PHE05

**Mobile No.:** 9498849810

**Class:** III - B.Sc PHYSICS

**Email ID:** anushiya7320@g.mail.com

**Name of the student:** VIDYA . M

**Register No.:** A17PHE55

**Class:** III - B.Sc PHYSICS

**vidyamurugan3499@gmail.com**

**Name of the student:** TYSWARVA . B

**Register No.:** A17PHE18

**Class:** III - B.Sc PHYSICS

**Tshwarysityb@gmail.com**

**Name of the Mentor (Staff):** Mr. V. RAJENDHIRAN

**Designation:**

**Department:** PHYSICS

**Title of the concept:** COOL WATER BY REFRIGERATOR

**Objective:**

**Background/ Existing Background:**

**Proposed Plan:**

**Duration of the Project:** TWO DAYS

**Materials/ Instruments required:** COMPRESSOR MOTOR, CONDENSER, CHAINER,  
THERMOSTART, WATER CANE, COPPER, CAPILLARY

**Budget:** 3000

**Expected Outcome:**

**Signature of the student:**

1. S. Anusuya .

2. Vidya . M

3. B. Tyswarya

PA08

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***Inid 2020* level 1**

**Format for Proposal**

Theme: mobile phone detector and life technology

Name of the student (Leader): REHANA

Register No.: ATPHE 43

Mobile No.: 9655936501

Class: III - B.Sc physics

Email ID: Rehana200ajd@gmail.com

Name of the student: SELIYA . R

Register No.: ATPHE 46

Class:

Name of the student: SARANYA

Register No.: ATPHE 45

Class:

Name of the Mentor (Staff):

Designation:

Department: physics

Title of the concept: mobile phone detector and life technology

Objective:

Background/ Existing Background:

Proposed Plan:

Duration of the Project: 1 week

Materials/ Instruments required: (100  $\mu$ F capacitor, 0.22  $\mu$ F capacitor, 220  $\Omega$  ohm

Budget: resistor, LED) (solar panel, LED, speaker)

Expected Outcome:

Signature of the student:

1. Rehana . M
2. Seliya . R
3. Saranya . V

PH 11

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - I**

***inid 2020* Level 1**

**Format for Proposal**

Theme: Memory cells - Research

Name of the student (Leader): N. MANIKANDAN

Register No.: A17PHD32

Class: III - Bsc. Physics

Mobile No.: 9443497465

Email ID: srinathsharma2000@gmail.com

Name of the student:

Register No.:

Class:

Name of the student:

Register No.:

Class:

Name of the Mentor (Staff): Dr. M. Sathish

Designation:

Department: Department of physics

Title of the concept: Regeneration of memory cells.

Objective: To research about memory cells.

Background/ Existing Background: No background known

Proposed Plan: sketching & collecting information

Duration of the Project: 15 minutes

Materials/ Instruments required: Chart

Budget: 20 ₹

Expected Outcome: Further researches

Signature of the student: 1. N. Manikandan  
2.  
3.

PH07/EV01

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - I**

***inid 2020* Level 1**

**Format for Proposal**

Theme: Air quality and GAS Contamination Detecting device

Name of the student (Leader): B. Virothini

Register No.: A17PHE56

Class: II - B.sc Physics

Mobile No.: 9025267198

Email ID: Virothini@gmail.com

Name of the student: S. Jency caroline selvi

Register No.: A17PHE20

Class: III B. sc physics

Name of the student: B. Kishani

Register No.: A17PHE26

Class: II B. sc physics

Name of the Mentor (Staff):

Designation:

Department: Physics

Title of the concept: Air quality and GAS Contamination Detecting device

Objective: Contamination air gases.

Background/~~Existing~~ Background:

Proposed Plan:

Duration of the Project: 1 Week

Materials/ Instruments required: Arduino UNO SMD Module, 16x2 LCD display,

Budget: 2500 I2C Module, MQ-135 Gas sensor, LED, Resistor 100Ω, Bread Board, connecting jumper wires.

Expected Outcome:

Signature of the student:

1. B. Virothini
2. B. Kishani
3. S. Jency caroline selvi

~~PHOR~~  
EVS02

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* level 1**

**Format for Proposal**

Theme: DISC TYPE OIL SKIMMER

Name of the student (Leader): A. HAJIMUTHUKATHIJA

Register No.: AITPHE16

Class: III - B.Sc PHYSICS

Mobile No.: 9486986890

Email ID: kathija3599@gmail.com

Name of the student: A.P.T. DEEPIKA PRIYA

Register No.: AITPHE12

Class: III - B.Sc PHYSICS

Name of the student: D. HEMAMALINI

deepibhuvan@gmail.com

Register No.: AITPHE17

Class: III - B.Sc P

Name of the Mentor (Staff): D.Y.M. SATHISH

Designation:

Department: PHYSICS

Title of the concept: DISC TYPE OIL SKIMMER

Objective:

Background/ Existing Background:

Proposed Plan:

Duration of the Project: FOUR DAYS

Materials/ Instruments required: BATTERY, MOSFET (IRF 540), POTENTIOMETER (10K $\Omega$ ),

Budget: 2500

MOTOR (12V), DIODE, 10K RESISTANCE, DISC, SHAFT,  
FISH TANK, ENGINE OIL, WATER, SOLAR CELL, WIRES

Expected Outcome:

Signature of the student:

1. A. Hajimuthukathija..
2. A.P.T. Deepika Priya
3. D. Hemamalini

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** level 1

**Format for Proposal**

Theme: INNOVATIVE TECHNIQUE IN AGRICULTURE - HYDROPONIC

Name of the student (Leader): A. JENOSH SHARIN

Register No.: A18PHE13

Class: B. SC PHYSICS II YEAR

Mobile No.: 8903979221

Email ID: sharinjenosh@gmail.com

Name of the student: S. SANTHIYA

Register No.: A18PHE28

Class: B. SC PHYSICS II YEAR

Name of the student: R. YOGALAKSHMI

Register No.: A18PHE45

Class: B. SC PHYSICS II YEAR

Name of the Mentor (Staff): Ms. S. SANGEETHA MARGREAT

Designation: M.Sc., M.Phil.,

Department: PHYSICS

Title of the concept: HYDROPONIC - GREEN FODDER PRODUCTION

Objective: GREEN FODDER PRODUCTION IN LOW BUDGET

Background/ Existing Background:

Proposed Plan: ENCLOSED

Duration of the Project: : 8 days .

Materials/ Instruments required: WATER, MOTOR, TIMER, PVC PIPE, YELLOW MAIZE, TRAYS.

Budget: ₹ 1,500 - 2,000/- (INITIAL INVESTMENT)

Expected Outcome: ₹ 50/- per day yield .

Signature of the student:

1. A. Jenosh sharin
2. S. Santhiya.
3. R. Yogalakshmi

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* Level 1**

**Format for Proposal**

Theme: *Graphene with automatic Solar panel*

Name of the student (Leader): *R. Uthaya Atharai*

Register No.: *A17PHE53*

Class: *III - B.sc physics*

Mobile No.: *8778231520*

Email ID: *Uthaya.51999@gmail.com*

Name of the student: *S. Keerthiga*

Register No.: *A17PHE24*

Class: *III - B.sc physics*

Name of the student: *L. Veronica Mary*

Register No.: *A17PHE5A*

Class: *III - B.sc physics*

Name of the Mentor (Staff):

Designation:

Department:

Title of the concept: *Graphene with automatic Solar panel*

Objective:

Background/ Existing Background:

Proposed Plan: *& d*

Duration of the Project: *2 days*

Materials/ Instruments required: *Arduino Uno R3, Graphite Sheet, Solar panel,*

Budget: *2,000/-* *Servo motor and 100 ohm resistor*

Expected Outcome:

Signature of the student:

1. *R. Uthaya Atharai*
2. *S. Keerthiga*
3. *L. Veronica Mary*

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - I**

***inid 2020*** Level 1

**Format for Proposal**

Theme: *Electrical*

Name of the student (Leader): *KALPANA T.S*

Register No.: *AIBENERB15*

Mobile No.: *9444180437*

Class: *II ENG-B*

Email ID: *senthamiselvikalpara@gmail.com*

Name of the student: *S. Iswarya*

Register No.: *AIBENERB58*

Class: *II . ENG - B*

Name of the student: *R. Ranjitha*

Register No.: *AIBENERB34*

Class: *II ENG-B*

Name of the Mentor (Staff):

Designation:

Department:

Title of the concept: *Sensor Signal deductor*

Objective: *To avoid accidents on the roads of Hill Stations*

Background/ Existing Background:

Proposed Plan:

Duration of the Project:

Materials/ Instruments required:

Budget:

Expected Outcome:

Signature of the student:

1. *TS Kalpana*
- 2.
- 3.



**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

Format for Proposal

Theme: Herbal cosermetic

Name of the student (Leader): S. Elakkiya

Register No.: AITMBEDT

Mobile No.: 7305882632

Class: III B.Sc (Microbiology)

Email ID: elakkiyameri2000@gmail.com

Name of the student: P. Vagini Pirithi

Register No.: AITMBE52

Class: III B.Sc (Microbiology)

Name of the student: -

Register No.: -

Class: -

Name of the Mentor (Staff): Dr. D. Sumitha

Designation: -

Department: Microbiology

Title of the concept: Antidandruff herbal powder.

Objective: Traditional based herbal cosermetic to develop cosermetic

Background/ Existing Background: Limited information available from herbs.

Proposed Plan: collecting samples washing, grinding, drying

Duration of the Project: 1 week.

Materials/ Instruments required: custard leaf, neem leaf, hibiscus leaf. Mixer.

Budget: Nil

Expected Outcome: To treat dandruff.

Signature of the student:

1. S. Elakkiya
2. P. Vagini Pirithi
- 3.

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

Theme: VALUE ADDED FOOD

Name of the student (Leader): S. VITHIYA

Register No.: A17MBE59

Mobile No.:

Class: III . B.Sc . MICROBIOLOGY

Email ID: vithiyasi1999@gmail.com

Name of the student: M. SOWMIYA

Register No.: A17MBE43

Class: III . B.Sc . MICROBIOLOGY

Name of the student:

Register No.:

Class:

Name of the Mentor (Staff): Dr. D. SUMITHA

Designation:

Department: MICROBIOLOGY

Title of the concept: TRADITIONAL BASED VALUE ADDED FOOD DEVELOPMENT

Objective: TO DEVELOPE VALUE ADDED FOOD FROM IDLY BATTER [BAMBOO RICE]

Background/ Existing Background: ONLY LIMITED DATA IS AVAILABLE

Proposed Plan: COLLECTION OF SAMPLE, WASHING & SOAKING, GRINDING, FERMENTING AND PRODUCT DEVELOPMENT

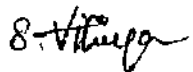
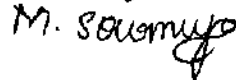
Duration of the Project: 1 WEEK

Materials/ Instruments required: GRINDER, IDLY COOKER, GAS STOVE

Budget: 250

Expected Outcome: PRODUCT DEVELOPED TO TREAT DIABETES

Signature of the student:

1. 
2. 
3. M. Sowmiya

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

Theme:

Name of the student (Leader): A. SIBI SELVAM .

Register No.: A17CMDA64

Mobile No.: 90 80412774

Class: III - B. Com 'A' Skit - 1

Email ID: doitsibi11@gmail.com

Name of the student: D. V. Gopinath .

Register No.: A17CMDA14

Class: III - B. Com 'A' Skit - 1 .

Name of the student: VI ANEESH . J

Register No.: A17CMDA72

Class: III - B. Com 'A' Skit - 1 .

Name of the Mentor (Staff):

Designation:

Department:

Title of the concept: Bio-Plastics (R&D Stage) .

Objective:

Background/ Existing Background:

Proposed Plan:

Duration of the Project:

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

Theme: Agriculture

Name of the student (Leader): vijayalakshmi . A

Register No.: A17CAEB36,

Class: III - BCA - B

Mobile No.: 9384107605

Email ID: susiviji007@gmail.com

Name of the student: Mohanapriya . S

Register No.: A17CAEB20

Class: III - BCA - B

Name of the student:

Register No.:

Class:

Name of the Mentor (Staff): Ms. Padmaiah

Designation: Assistant Professor

Department: BCA

Title of the concept: app for assisting farmers in seed cultivation.

Objective: The aim of this <sup>app</sup> project is to assist the farmer in information

Background/ Existing Background: regarding the seeds and the way it should be cultivated.

Proposed Plan: —  $\rightarrow$  No such App exist

Duration of the Project: 3 months

Materials/ Instruments required: Android Studio + Mobile + Laptop

Budget: 10,000/-

Expected Outcome: An App which assist the farmer.

Signature of the student:

1. A. vijaya lakshmi
2. Mohanapriya
- 3.

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

Format for Proposal

Theme: *Smart Traffic Control*

Name of the student (Leader): *MAHENDRA VARAN R8*

Register No.: *A18MIT15*

Class: *M.Sc (IT)*

Mobile No.: *9750557680*

Email ID: *mahendra varan@gmail.com*

Name of the student: *LOKESWARAN M*

Register No.: *A19HIT18*

Class: *M.Sc (IT)*

Name of the student: *VIGNESH B*

Register No.: *A19HIT16*

Class: *M.Sc (IT)*

Name of the Mentor (Staff): *H.V.A. JOHN PRODUP EBANEXER M.ED., MPhil*

Designation:

Department: *M.Sc - IT*

Title of the concept: *SMART TRAFFIC SYSTEM*

Objective: *AI based smart traffic control.*

Background/ Existing Background: *no such traffic control exist*

Proposed Plan:

Duration of the Project: *3 month*

Materials/ Instruments required: *IoT wifi board, nano wifi router*

Budget: *30,000*

Expected Outcome: *Arduino which help to control traffic signal with*

Signature of the student:

- 1. R.S. Anbu var.*
- 2. M. Lokeshwararaj.*
- 3. B. Vignesh*

*real time  
IoT  
& Proct Pon.*

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

Theme: *Eco friendly*

Name of the student (Leader): *Aarthi. M* Class: *III BCA 'A' (Shift-II)*

Register No.: *A17CAEA08*

Class: *III BCA 'A' (Shift-II)*

Mobile No.: *8438360532*

Email ID: *kushikaanmani5@gmail.com*

Name of the student: *M. Bhuvaneshwari*

Register No.: *A17CAEA10*

Class: *III - BCA 'A'*

Name of the student: *B. Revathi*

Register No.: *A17CAEA34*

Class: *III - BCA 'A'*

Name of the Mentor (Staff): *A. Lourdu Caroline*

Designation: *Assistant Professor*

Department: *BCA*

Title of the concept: *Eco friendly management system*

Objective: *Aim to reproduce the waste things to born a new environmental wealth.*

Background/ Existing Background: *-*

Proposed Plan: *To create a software for shopping eco friendly products.*

Duration of the Project: *3 months*

Materials/ Instruments required: *C#.net,*

Budget: *10,000*

Expected Outcome: *Eco friendly environment*

Signature of the student:

1. *M. Bhuvaneshwari*
2. *M. Arthi*
3. *B. Revathi*

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020* level 1**

**Format for Proposal**

Theme: NANOTECHNOLOGY

Name of the student (Leader): P. NANDHA KUMAR  
Register No.: A18PHD18                      Class: II B.SC PHYSICS  
Mobile No.: 9361713205                      Email ID: nandhakumar22112@gmail.com

Name of the student:  
Register No.:                                      Class:

Name of the student:  
Register No.:                                      Class:

Name of the Mentor (Staff): MR. JUDE LEONARD HILARY .H  
Designation: ASST. Prof.                                      Department: PHYSICS.

Title of the concept: OSMOTIC POWER

Objective: TO PRODUCE ENERGY FROM ELECTRON FILTRATION.

Background/ Existing Background:

Proposed Plan:

Duration of the Project:

Materials/ Instruments required: SEMI PERMIABLE MEMBRANE ( $10^{-9}$  PORES)

Budget:

Expected Outcome:

Signature of the student: 1. P. Nandha Kumar  
2.  
3.

**RESEARCH DEVELOPMENT CELL (RDC)  
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

Theme: **HYDROGEN FUEL CELL (ELECTRONIC DEVICES), LI-FI**

Name of the student (Leader): **SHARMILA R**

Register No.: **A17PHE48**

Class: **III - PHYSICS**

Mobile No.: **9443986048, 8667493849**

Email ID: **sharmirajavan@gmail.com**

Name of the student: **TAMILARASI P**

Register No.: **A17PHE52**

Class: **III - PHYSICS**

Name of the student: **PRIYANGA V**

Register No.: **A17PHE41**

Class: **III - PHYSICS**

Name of the Mentor (Staff): **MARIA JULIE MAM. I**

Designation:

Department: **PHYSICS**

Title of the concept: **Light fidelity, Replacement for Electricity.**

Objective: **To develop our Country without polluting the nature.**

Background/ Existing Background: **-**

Proposed Plan:

Duration of the Project:

Materials/ Instruments required:

Budget: **2,000**

Expected Outcome: **Data Transmission through light waves.**

Signature of the student:

1. **Sharmila R.**
2. **Tamilarasi P.**
3. **Priyanga V.**



**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Format for Proposal**

Theme: WATER PURIFICATION

Name of the student (Leader): BLESSY SHEMURAH-K  
Register No.: A19PHE07      Class: I - B.Sc., PHYSICS  
Mobile No.: 9442781417      Email ID: blessy11122001@gmail.com

Name of the student: JEYA PRIYA.V  
Register No.: A19PHE14      Class: I - B.Sc., PHYSICS

Name of the student: RAMYA.K  
Register No.: A19PHE29      Class: I - B.Sc., PHYSICS

Name of the Mentor (Staff): Dr. D. SHORBA  
Designation: \_\_\_\_\_ Department: PHYSICS

Title of the concept: SEWAGE CHEMICAL TREATMENT

Objective: TO PURIFY AND RECYCLE SEWAGE WATER

Background/ Existing Background: -

Proposed Plan: -

Duration of the Project: ~~7 minutes~~ 25 days

Materials/ Instruments required: GRAVEL, SAND, CHARCOAL, COTTON, GLASS, AMMONIA, CHLORINE, SULPHUR, CARBON, EICHORNIA

Budget: ₹ 1500

Expected Outcome: -

Signature of the student: 

1. K. Sherry Shemurah
2. Jeyapriya.V
3. Ramya.K.

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - I**

***inid 2020*** Level 1

**Format for Proposal**

Theme: LEAF CULTURE

Name of the student (Leader):

Register No.: A1920035

Mobile No.: 89030 81484

B. SIRPIYARASAN

Class: I 200 (Zoology)

Email ID: s1920035@gmail.com

Name of the student:

Register No.: A1920098

C. PUGAZHENDHI

Class: I 200

Name of the student:

Register No.: A1920017

S. KAVI ARASAN

Class: I 200

Name of the Mentor (Staff):

Designation: ASSISTANT PROFESSOR

DR. T. GRANESH KUMAR

Department: ZOOLOGY

Title of the concept: DEVELOPMENT OF ROOTS FROM A SINGLE LEAF

Objective: TO INCREASE THE NUMBER OF RARE PLANT SPECIES

Background/ Existing Background:

Leaf culture is the culture of excised young leaf in a chemically defined medium where they grow and follow the developmental sequence under controlled conditions.

Proposed Plan:

Culture of excised leaf is valuable to study the effects of various nutrients, growth factors and changing environmental conditions divorced from complexities of the intact plant.

Duration of the Project:

30 months (Three months)

**ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**A Christian Minority Institution, Affiliated to Thiruvalluvar University, Vellore  
Re-Accredited by NAAC with "A Grade (3<sup>rd</sup> cycle),  
(Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956)  
Cuddalore-607001**



**Department of Zoology  
Research Development Cell (RDC)  
Innovative Ideas 2020**

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

**inid 2020** Level 1

**Project Presentation - 28.02.2020**

Sl. No.	Project ID	Comments
1	CS01	House rent App. <sup>Mag checks</sup> <sup>gacwv</sup> <sup>com</sup> <u>innovation</u> (Survey)
2	CS02	Seed Cultivation { knowledge sharing, about cultivation }
3	CS03	Green Society - Forest Fire.
4	CS04	Local A. APP.
5	CS05	Anteon Paper Scrapping.
6	CS06	Increased counts => <u>Prediction/level</u> :- Platter.
7	CS07	(Unit) Sap Labor. Revision Management System
8	CS08	Aquidrone App.
9	CS12	Fuel level detection.

Name and Signature of the Reviewer:

*(Handwritten Signature)*

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**GUDDALORE - 1**

**inid 2020** Level 1

①

**Project Presentation - 28.02.2020**

Sl. No.	Project ID	Comments
1.	CS01 - BCA	Rent - APP - AES, GCM. techniques used. new ideas - include them
2.	CS02 - BCD	Agriculture - App - Tools. use? Tamil - can be used.
3.	CS03 - BCA	Green society - idea - ok - but need - improvement - sensors - mod.
4.	CS04 - BCA	vzone - Explo - Bot - Kirufi - Implementation.
5	<del>CS05 - BCA</del> BS	Verbalh <del>...</del>
5	<del>CS05 - BCA</del> CS05 - BCA	Question paper - scanned version - Video - App - exampoint of view -
6	PH01	petrol - with - jayem -
7	PH02	sea water - growth - tree -
8	PH03	data transfer - mobile flash light Binary - receiving end - solar panel
9	PH04	power - bank - as qv - battery
10	PH05	massage - bed - both cooling + heating
11	PH06	water cooler - using copper - with electricity -

Name and Signature of the Reviewer: R. Vinu - 28/2/2020

[DR. VIJAYA R.]

(P.T.O)

**RESEARCH DEVELOPMENT CELL (RDC)**  
**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**CUDDALORE - 1**

***inid 2020*** Level 1

**Project Presentation - 28.02.2020**

Sl. No.	Project ID	Comments
1	CS01 Gayathri	Revise with unique features
2	CS02 vijaylakshmi	Idea must be modified to be viable.
3	CS03 vijaykiran	Ideas to protect forest need to be refined & viable.
4	CS04 Jayaprakash	Too messy - need special solution to specific problem.
5	CS05	Concept is good can be enhanced to next level.
6	CS06	very crude - need more improvisation to make it viable.
7	CS07	concept is good & approved
8	CS08	Need clear idea to be implemented.
9	CS09	Existing technique Need Innovation
10	CS10	Existing technique Need Innovation
11	CS11	Can be developed into effective one
12	CS12	Novel ideas can be promoted

Name and Signature of the Reviewer:

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**CUDDALORE - 1**

***inid 2020*** Level 1

**Project Presentation - 28.02.2020**

Sl. No.	Project ID	Comments
	CS01	Do survey of feedback - Available Apps.
	CS02	Survey do - Tamil needed seeds types where available
	CS03	<del>Survey</del> cost of sensor forest fire alarm
	CS04	Video processing
	CS05	On videos. Tutor Demo.
	CS06	Anand Joshua GDP predictor from where get combine concentrate on one topic.
	CS07	Demo. signal
	BS02	Viakhya Idli
	BS03	Jenoh Phys - Be analyze Hydrophic <u>EDC?</u>
	BS04	Manilkanna parthenium electric Try with other plants measure him
	PH10	Graphite
	PH11	Concept

Name and Signature of the Reviewer:

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***inid 2020*** Level 1

**Project Presentation - 28.02.2020**

Sl. No.	Project ID	Comments
1.	CS01	House rent app - compare with available apps. It should be user friendly. Options to be given not like forms to fill. Annul the limitations like (City)
2.	CS02	Rare seeds, accessibility should be made for end users. New ideas can be implemented
3.	CS03	Green society - Temperature sensing machines can be developed to prevent trees from fire.
4.	CS04	V zone - stop the message (fake) at the source. Itself. Don't allow to endorsement survey.
5.	BS01	Dandruff prevention using naturally available leaves. Scientific proof - sell in the form of shampoo.
6.	CS05	Question Bank - solved answers. Experts videos can be uploaded & implemented
7.	PH01	White fuel - raw materials are costly. make it cost effective.
8.	PH02	Sea water farming - note down the parameters and submit the proposal.
9.	PH03	Data Transmission through photons using solar panel - Digital analysis of Data and reception of Data.
10.	PH04	Powers pace using I.e. 7005 to be regulated.
11.	PH05	manage bed - Try anything innovative.
12.	PH06	Solar panel water dispenser or pot with copper wire.

Name and Signature of the Reviewer: *Dr. V. Sathana* *reddy* 28/2/2020