



## BEST PRACTICE –I An Integrated Advance Teaching and Learning

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## 1. Add on Courses with Industry Experts:



**Students participated in Design of Smart Antenna Systems and its importance course  
Conducted by the Department of ECE**



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**Students participated in Modern Chip Design Embedded Home Automation and its Applications course Conducted by the Department of ECE**



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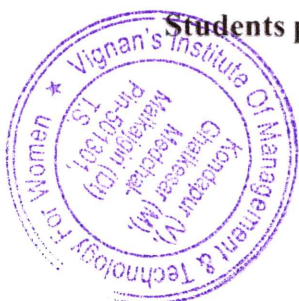
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**Students participated in Introduction to the java api for machine learning  
Course conducted by the Department of CSE**

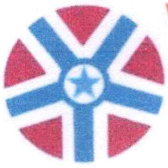


**Students participated in Challenges in Design of PSOCs course  
Conducted by the Department of EEE**



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## 2. Interaction with Industry Experts Photos



Department of ECE students visited Elegant Embedded Solutions PVT. Ltd.

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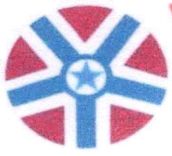


Department of ECE students visited ELICO Pvt. Ltd



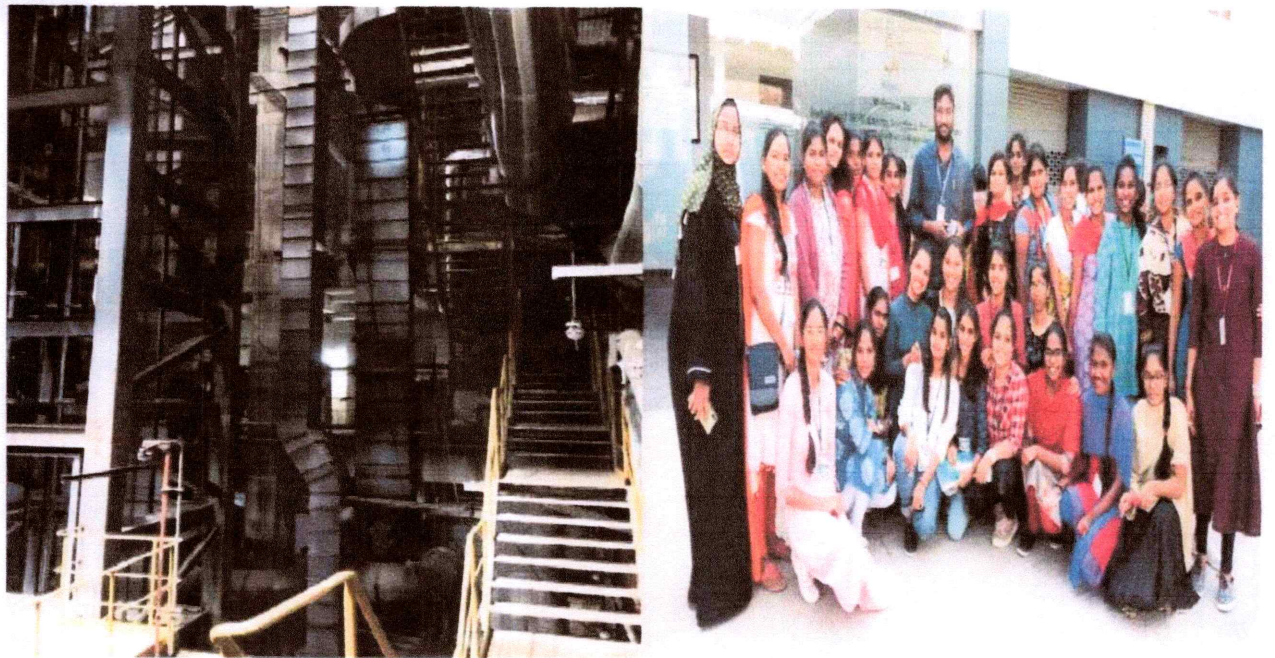
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Department of EEE students visited Ramky Enviro Engineers Limited Pvt. Ltd.



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**Department of EEE Students visited to Kakatiya Thermal Power Plant (KTPP)**



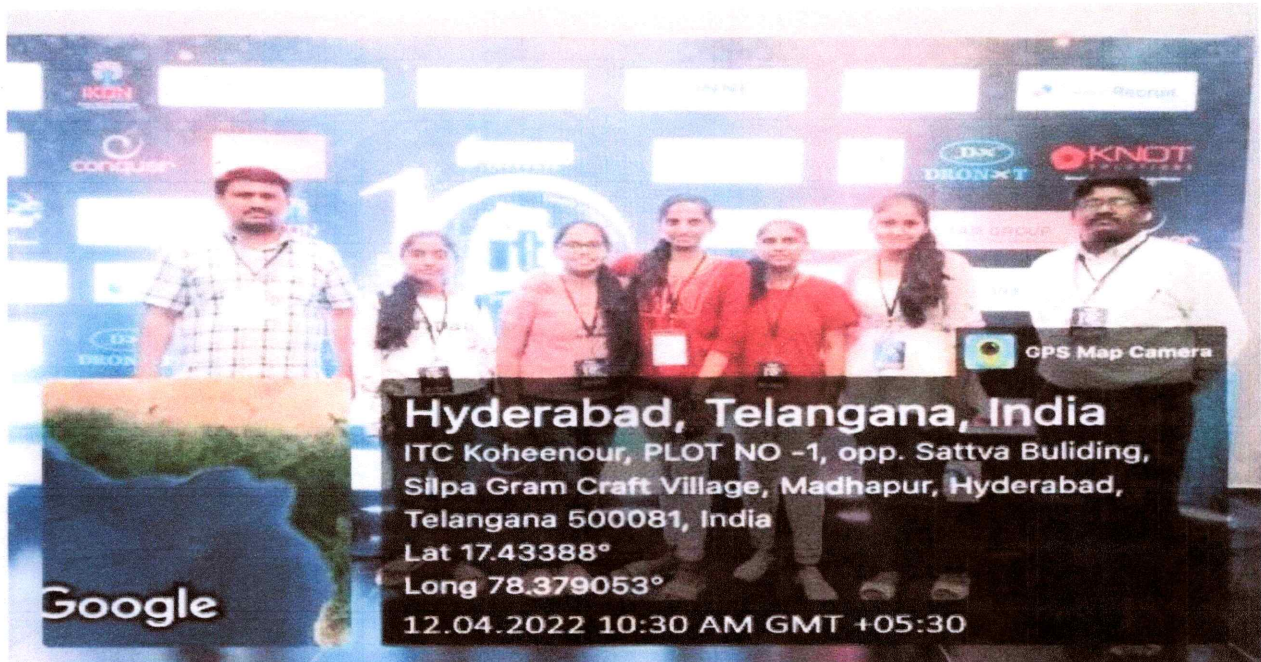
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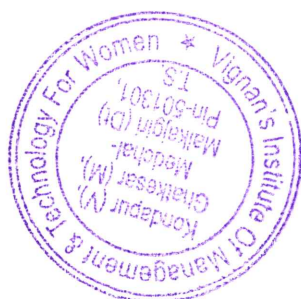


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Department of IT Students visited T-Hub Campus, Hyderabad



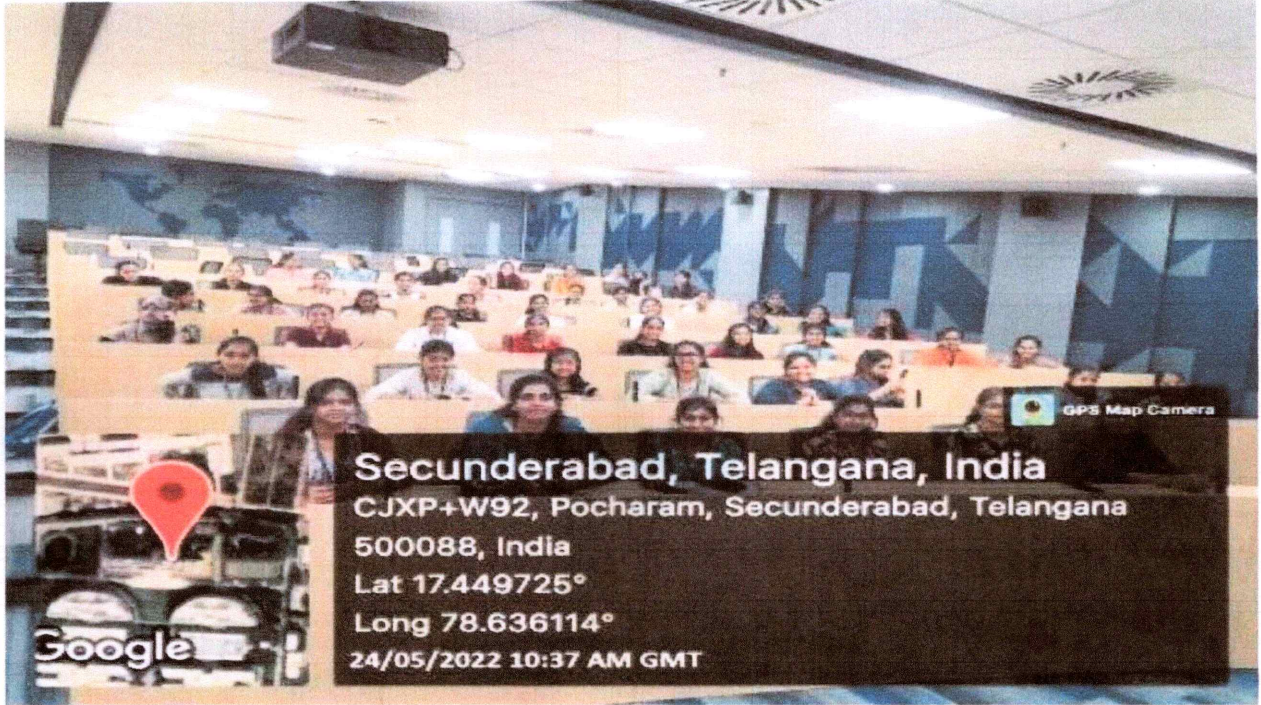
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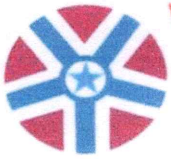


Department of AIML Students visited Infosys SEZ Campus in Hyderabad



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### 3. Innovative Project Implementation

#### a) Report on Fake Profile Detection on Social Network

In this Project a new classification algorithm was proposed to improve **detecting fake accounts on social networks**, where the SVM trained model decision values were used to train a NN model, and SVM testing decision values were used to test the NN model. To reach our goal we used "MIB" baseline dataset and run it into pre-processing phase where four feature reduction techniques were used to reduce the feature vector.

- PCA
- Spear mans Rank-Order Correlation
- Multiple Linear Regression
- Wrapper SVM
- In the classification phase three learning algorithms were used.
- The proposed SVM-NN algorithm
- SVM
- NN

#### TEAM (Sample List)

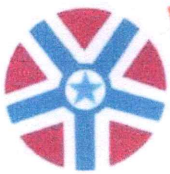
18UP1A0579	Kota Vasavi Vineetha	Dr C. Srinivasa Kumar	Fake Profile Detection on Social Network
18UP1A05A6	Somarouthu Sai Niharika		
18UP1A05A4	Shaista Sameen		
18UP1A0571	Gunda Abhi Sri		





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## b) Report on the DTMF based remote monitoring system

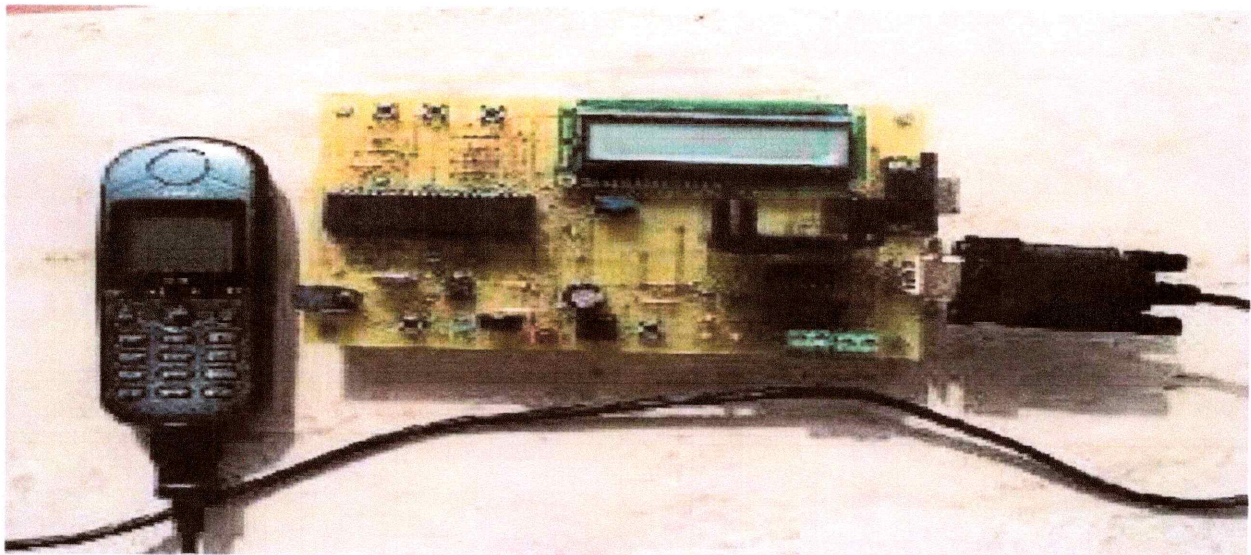
Controlling devices using switches are common. From a few decades controlling devices using remote control switches like infrared remote control switch, wireless remote control switches are becoming popular. But these technologies have their own limitations. Laser beams are harmful to mankind.

Some technologies like IR remote control are used for short distance applications. In such case if we have system, which does not require any radiations or which is not harmful, long remote control switch!! Here, introducing such a system, which does not require any radiations, any laser beam, which has no limitation of range, it can be used from any distance from meters to thousand kilometers using a mobile phone.

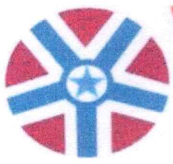
### TEAM (Sample List)

18UP1A0201	Alwa Jyoshna Reddy	L Kiran Kumar	The DTMF based remote monitoring system
18UP1A0202	Bonthala Himabindu		
18UP1A0203	Dende Manasa		
18UP1A0204	Dokku Vatsalya		

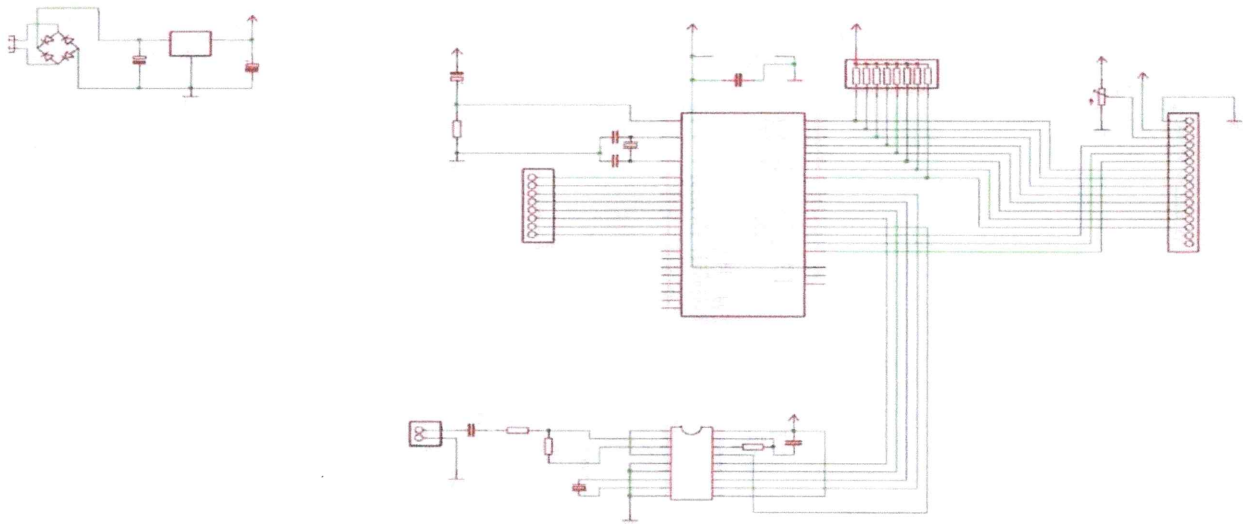
### The DTMF Based Remote Monitoring System



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## CIRCUIT DIAGRAM



**Organized a project on the DTMF based remote monitoring system  
By the Department of EEE**

### c) Report on Generation of Electricity from Solid Waste Material

Waste management sector has lot of potential to become a resource. There is no single recipe for waste management. However, there are a few golden rules: start small, keep it simple and advance step by step. Likewise, environmental costs should be taken into consideration.

#### TEAM (Sample List)

18UP5A0202	Boge Thirumala	L Kiran Kumar	GENERATION OF ELECTRICITY FROM SOLID WASTE MATERIAL
17UP1A0202	Basannapalli Ravalli		
18UP5A0208	Palaji Lathasri		
18UP5A0209	Pasham Swathi		



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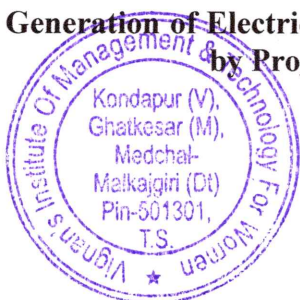
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## Generation of Electricity from Solid Waste Material

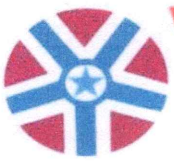


### Project on Generation of Electricity from Solid Waste Material - Field visit by Project Team, Department of EEE



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## d) Report on Covid - 19 Futures fore casting using supervised machine learning

The results of the study prove that ES performs best in the current forecasting domain given the nature and size of the dataset. LR and LASSO also perform well for forecasting to some extent to predict death rate and confirm cases. According to the results of these two models, the death rates will increase in upcoming days, and recoveries rate will be slowed down. SVM produces poor results in all scenarios because of the ups and downs in the dataset values. It was very difficult to put an accurate hyper plane between the given values of the dataset. Overall we conclude that model predictions according to the current scenario are correct which may be helpful to understand the upcoming situation. The study forecasts thus can also be of great help for the authorities to take timely actions and make decisions to contain the COVID-19 crisis.

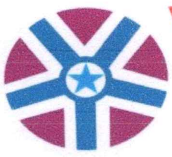
### TEAM (Sample List)

R. No	Name of the Students	Project Name	Mini Project Guide
20UP5A1201	B. Swapna	Covid - 19 future forecasting using supervised machine learning	Dr. S. Ranga Swamy
19UP1A1204	B. Shreya		
19UP1A1222	P. Shilpa		
19UP1A1226	S. Harshitha		



  
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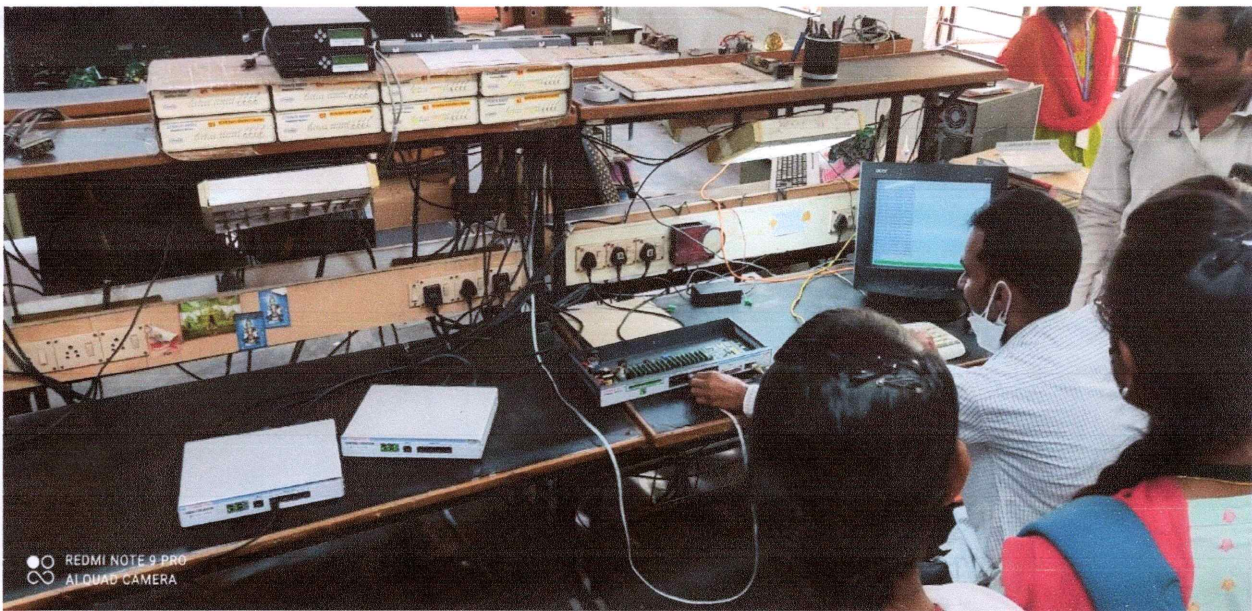
**e) Report on Emotion Based Music Recommendation System**

In this project, music recommendation model it is based on the emotions that are captured in real time images of the user. This project is designed for the purpose of making better interaction between the music system and the user because Music is helpful in changing the mood of the user and for some people it is a stress reliever.

Recent development it shows a wide prospective in the developing the emotion based music recommendation system. Thus the present system presents Face (expressions) based recognition system so that it could detect the emotions and music will be played accordingly.

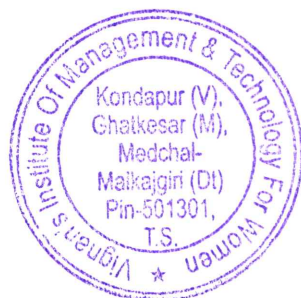
**TEAM (Sample List)**

19UP1A1227	T. Rithika	Emotion Based Music Recommendation System	<b>Mrs. K. Helini</b>
19UP1A1231	T. Rupika		
19UP1A1209	G. Sneha Reddy		
19UP1A1233	V. Meghana Reddy		

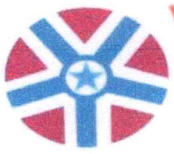


**Project “Emotion Based Music Recommendation System” - Field Visit**

**By Project Team, Department of IT**



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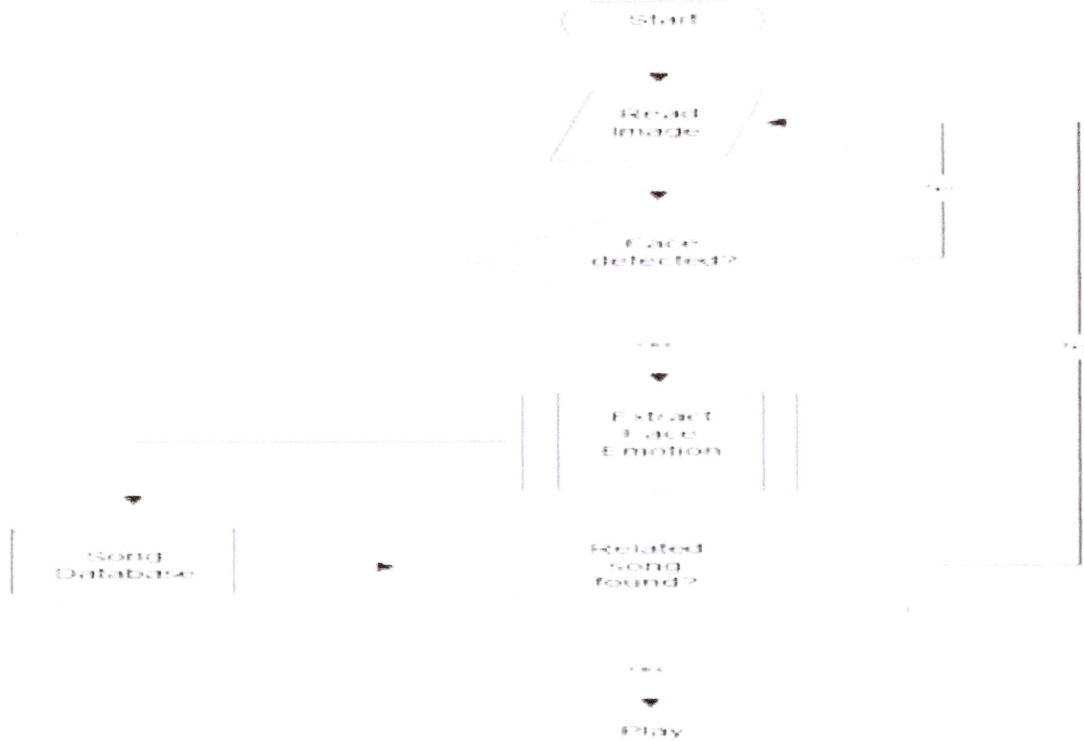


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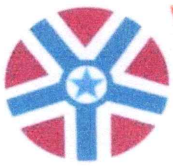
Flow diagram of proposed system



**Organized a project on Emotion Based Music Recommendation System  
by Department of IT**



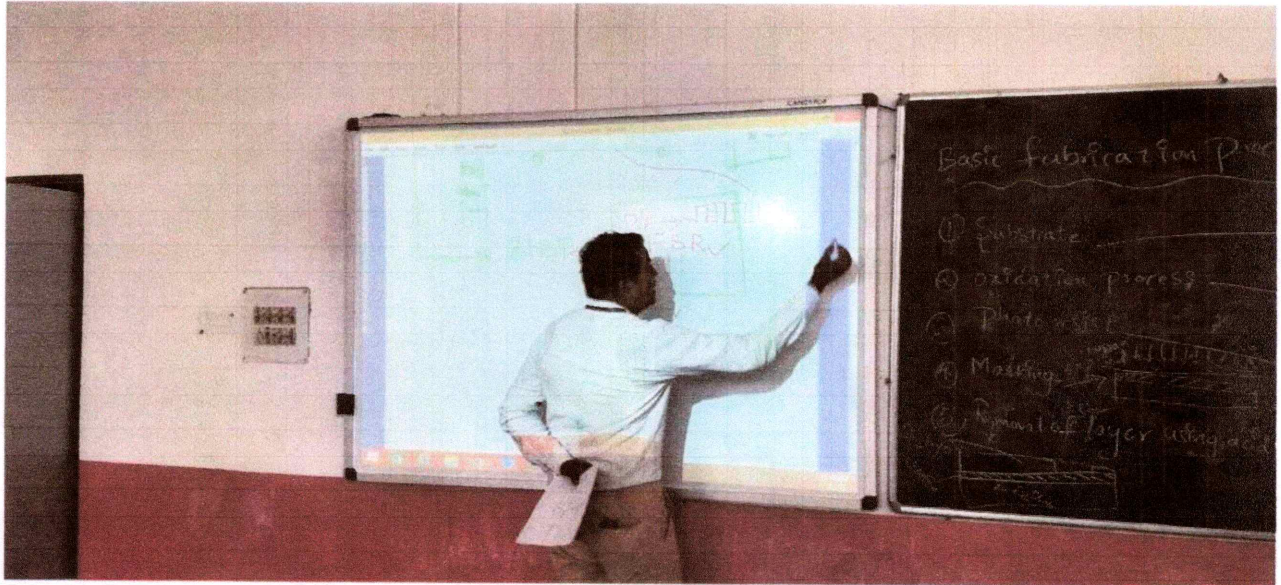
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## 4. ICT Enabled Teaching and Learning

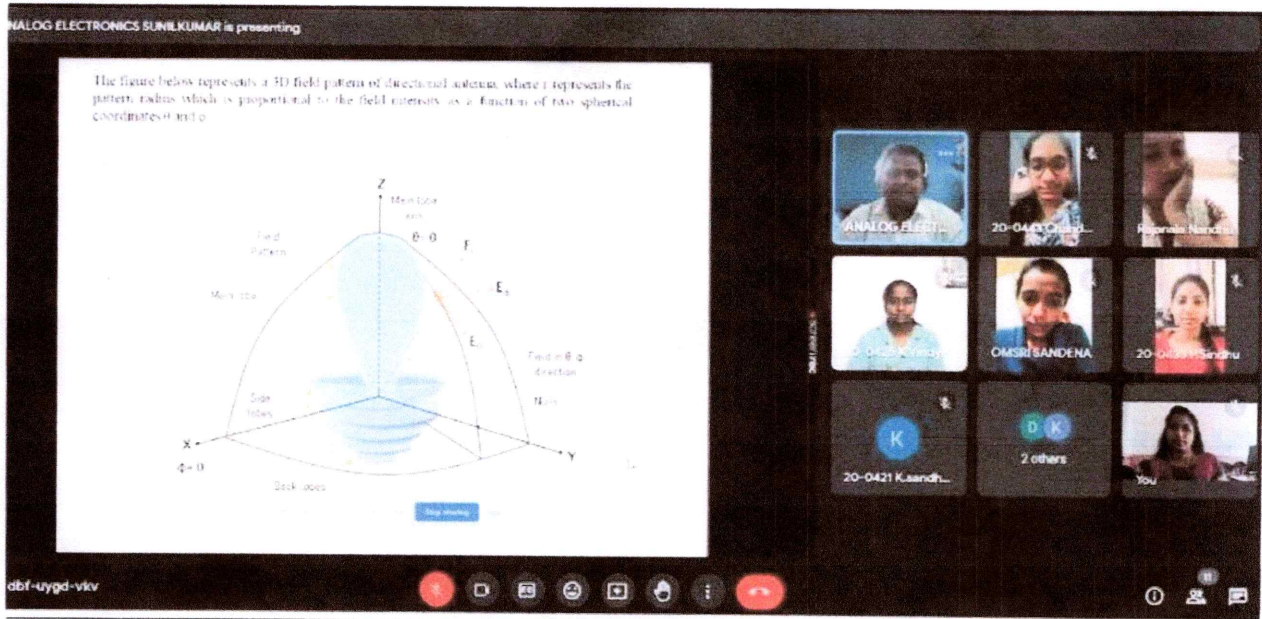
The Institute VMTW follows ICT enabled teaching and learning in addition to the traditional classroom education.

### Blended Teaching:



Online cum Offline class for the subject NATL through Digital board and Google Meet.

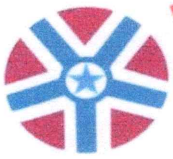
### Online Teaching:



A swift transition from classroom to online teaching by using Virtual Lab platforms like Google meet, Google class room, ZOOM, CISCO WEB-EX and You-Tube



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## Course Handouts:

My Drive > Classroom > III ECE A

Name	Owner	Last modified	File size
OOOS Assignment Questions 2021.doc	me	1e 42	71 KB
Untitled form	me	1e 51	1 KB

13.18 GB of 15 GB used

Buy storage

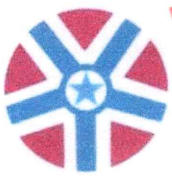
Course handout consists of Video lectures, Lecture Notes, Assignment questions, Tutorial questions and answers a model question papers sharing using ICT tools like Google Classroom etc.



Shared Web Development notes through Google Class room



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**IV SEM (AY 2021-22)**  
II ECE A

Meet: [Generate link](#)

Class code: **c5ivc2p**

Upcoming:

- AM Problems.pdf (PDF)
- AM Problems\_2.docx (Word)
- AM\_D&B\_SC\_Notes.docx (Word)
- SSB\_SC\_Notes.pdf (PDF)
- VSB\_SC\_Notes.pdf (PDF)

Dear Students find the notes for ADC Unit-1

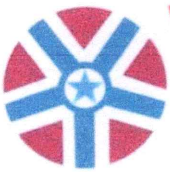
## Shared Analog & Digital Communication notes through Google Class room



## Shared Electronics Circuit Analysis notes through Google Class room



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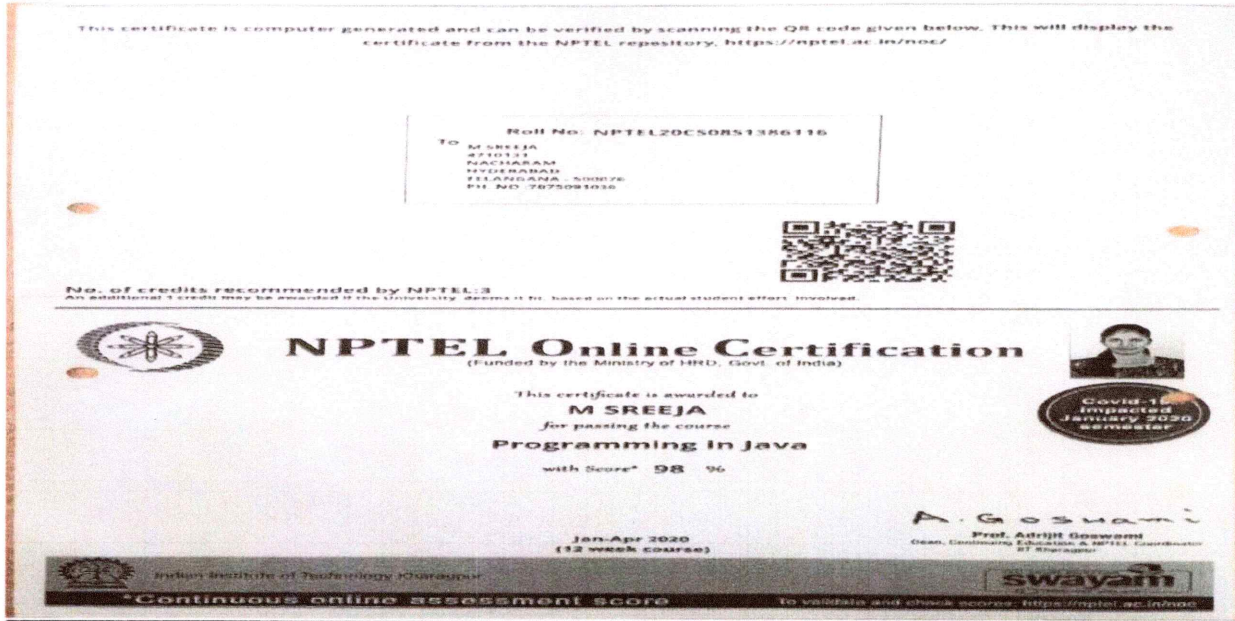
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## Massive Open online course :

Faculty enrolls for various courses like NPTEL, COURSERA, and other MOOCs for better understanding of the subject and encourages the students to get certified.



COURSE CERTIFICATE

K S Krishna

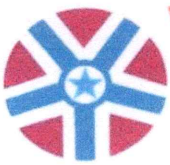
AI For Everyone



*Adm*

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This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository. <https://npTEL.ac.in/noc/>

Roll No: NPTEL19CS41551471156

**TO: KEERTHI REDDY**  
13  
DHARMAPUR VII  
MADHURJAN  
TELANGANA  
509001  
PIN No: 6304730168

Score	Type of Certificate
>=90	Elite Gold
75-89	Elite Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL: 3  
An additional 1 credit may be awarded if the University deems it fit based on the actual student effort involved.

**Elite**  
**NPTEL Online Certification**  
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to  
**KEERTHI REDDY**  
for successfully completing the course  
**The Joy of Computing Using Python**  
with a consolidated score of **85** %

Online Assignments | 24.75/25 | Programming Exam | 25/25 | Proctored Exam | 35/50  
Total number of candidates certified in this course: 8505

Prof. Devendra Jajbal  
Centre for Technology Education, IITM

Jul-Oct 2019  
(12 week course)

Prof. Andrew Thangaraj  
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL19CS41551471156

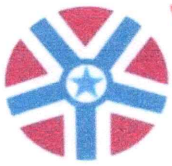
To validate and check scores: <https://npTEL.ac.in/noc/>

## Social Media in Education :

Faculty members use the social media platforms like WhatsApp and Telegram to connect with the students for sharing information.

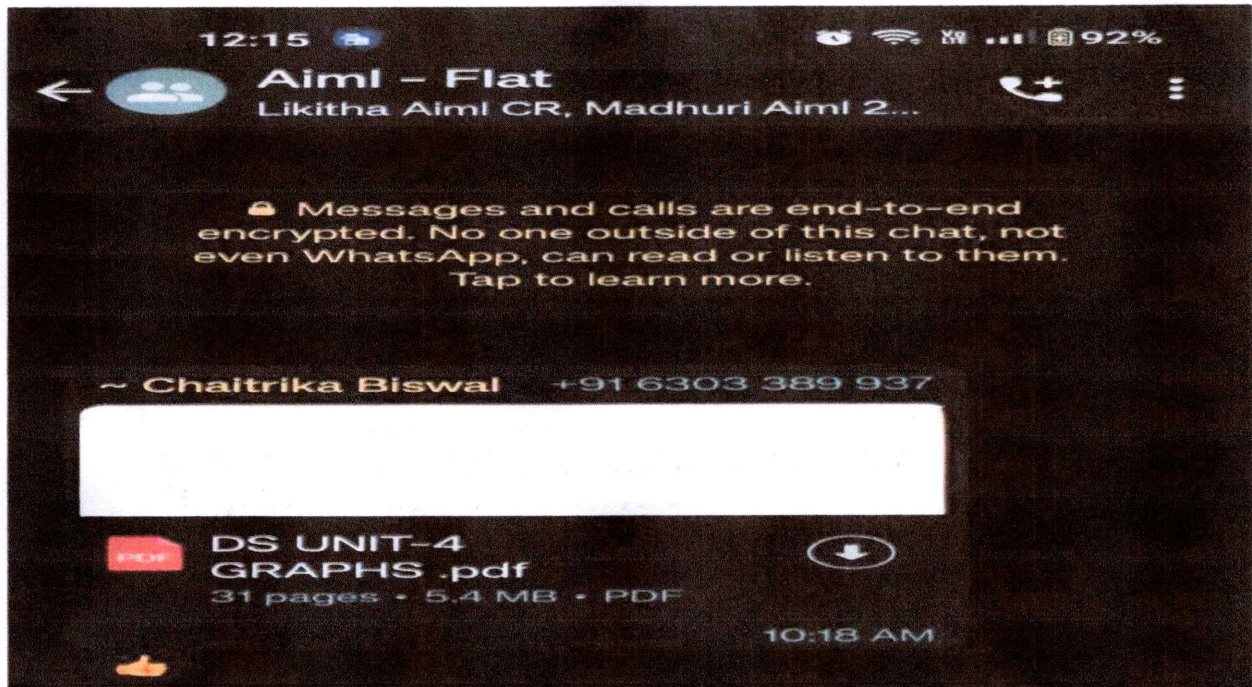


  
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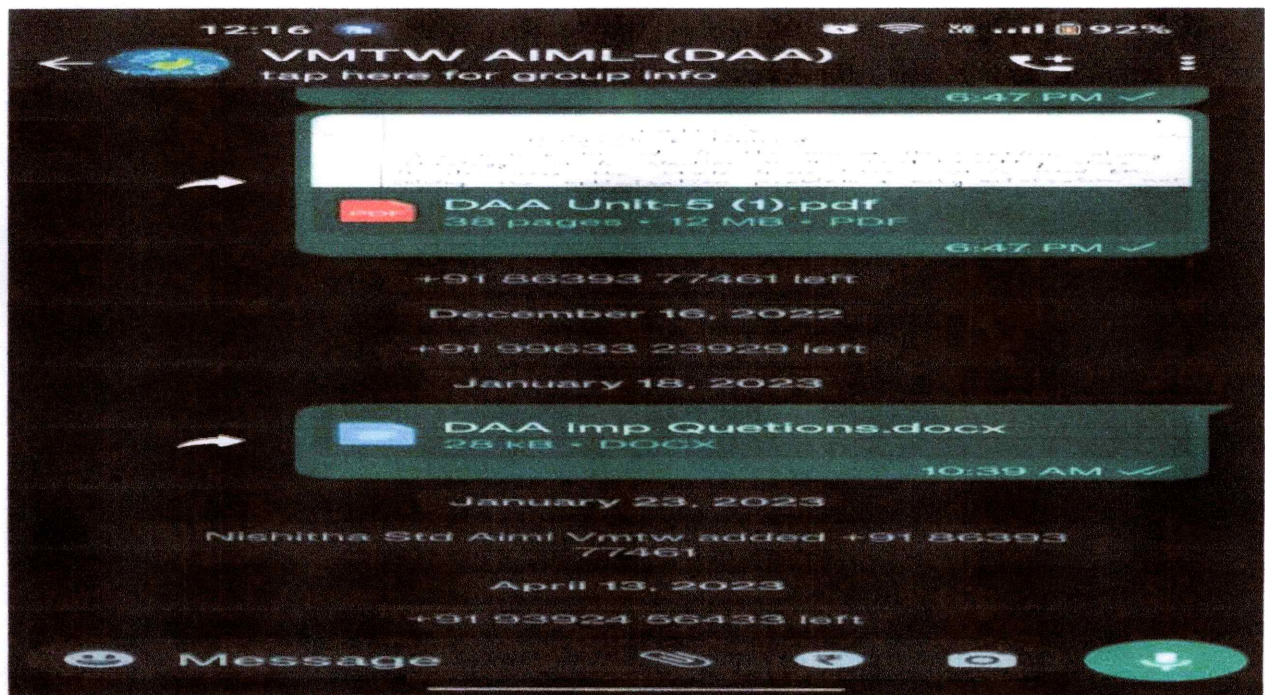


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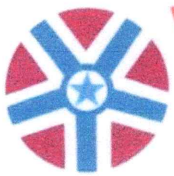
Faculty sharing notes through Whats App



*Adi*

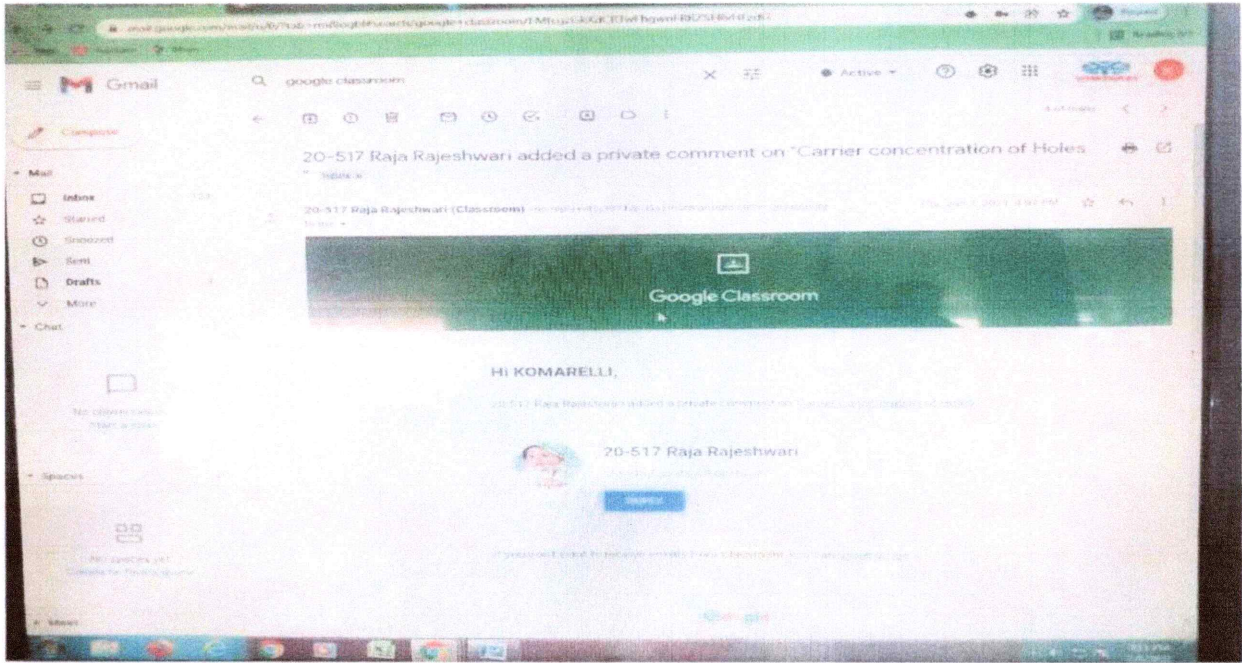
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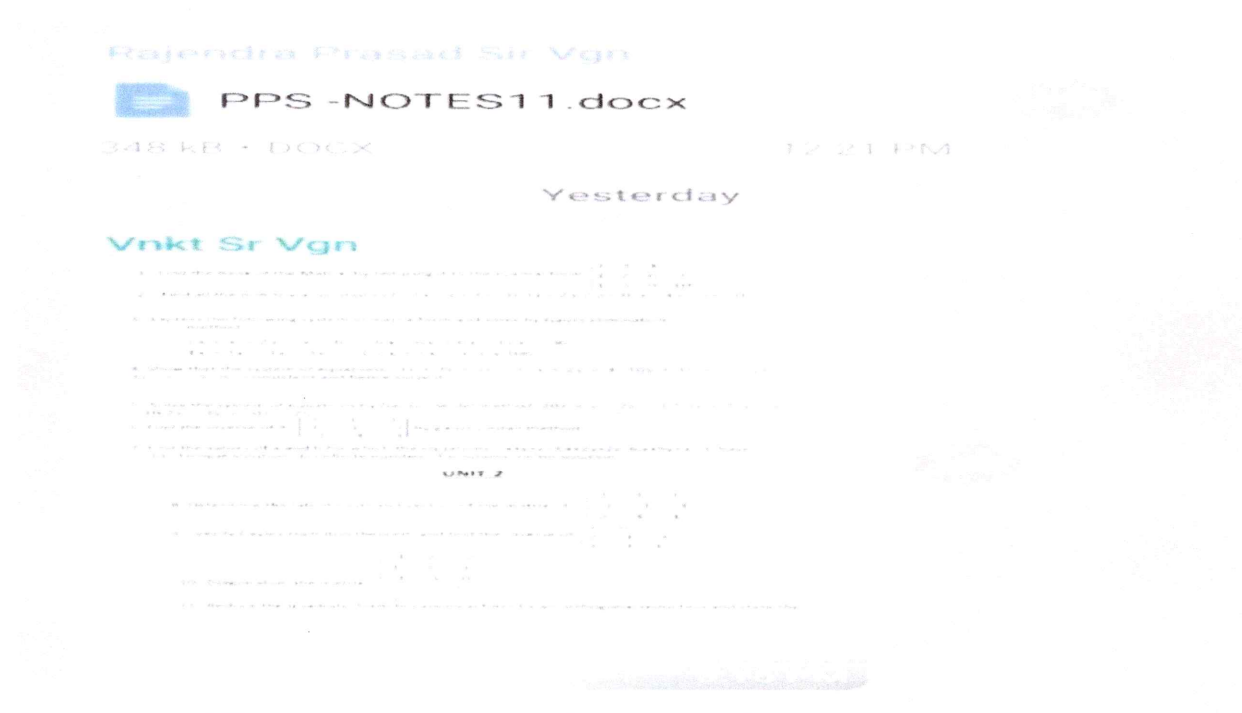


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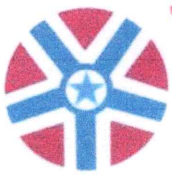
Faculty sharing the subject information through Email



Shared Mathematics notes through WhatsApp

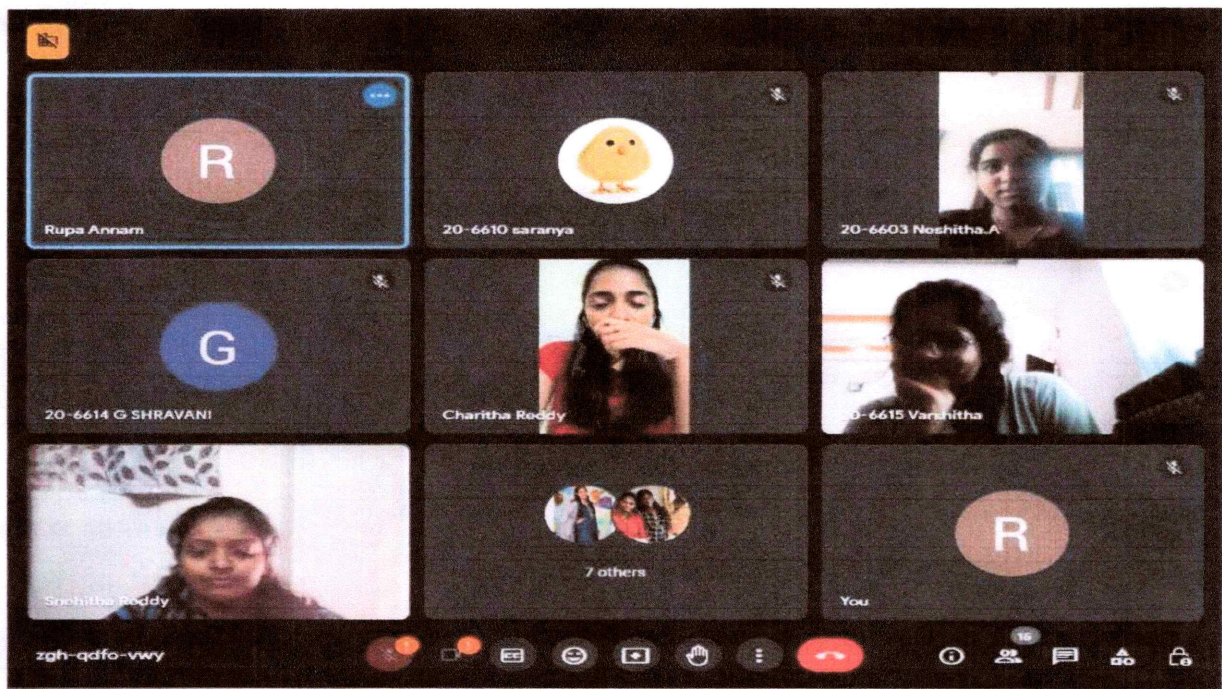
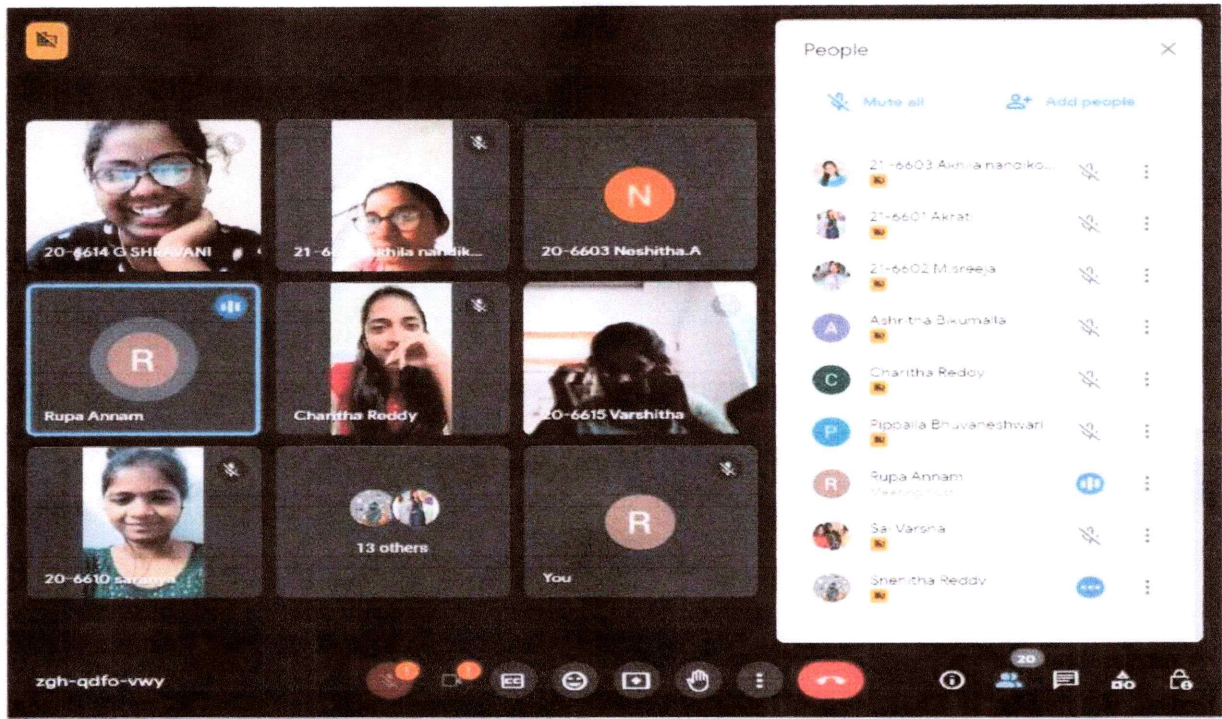


*Ashu*  
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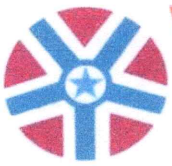
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Shared VLSI Assignment through Google Class room



*RASHI*  
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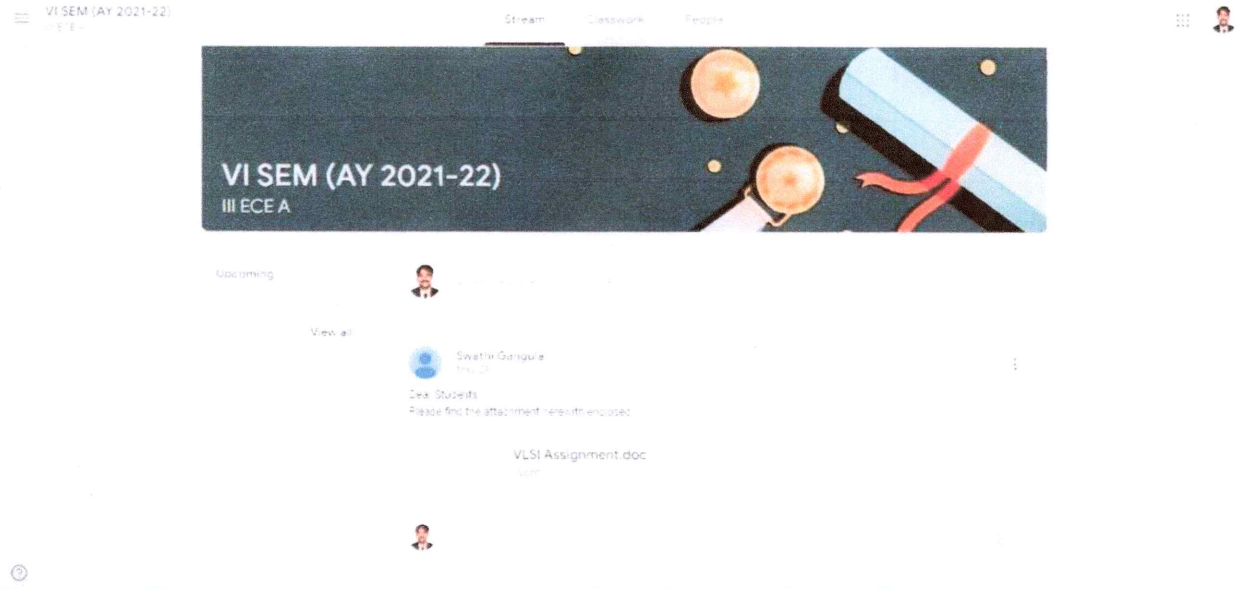
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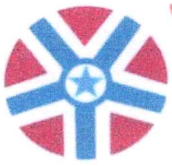


## Google Forms:

The faculty uses Google forms for assessing the students for quiz, assignments etc;



*ASHA*  
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## MPMC QUIZ-1:

**\*Required**

Roll Number\*

1. Storage which stores or retains data after power off is called 1 point

Mark only one oval.

- Volatile storage
- Non-Volatile storage
- Direct Storage
- None of these

2. What is the permanent memory built into your computer called 1 point

Mark only one oval.

- RAM
- ROM
- CPU
- CD-ROM

3. Hard disc drives are considered. Storage 1 point

Mark only one oval.

- Flash
- Non-volatile
- Temporary
- Non-permanent

*Handwritten signature*  
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4. Virtual memory is\_\_

1 point

Mark only one oval.

- Memory on the hard disk that the CPU uses an extended RAM in RAM
- Only necessary if you do not have any RAM in your computer
- A backup device for floppy disk
- None of the above

5. How to erase the data In EPROM?

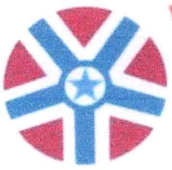
1point

Mark only one oval.

- Electrically
- By apply UV light
- By applying constant power
- None of these



*Jash.*  
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## Sample Copy of Flipped Class:



III IT Students were handling a Flipped class



Flipped class was conducted by II year ECE students



*[Signature]*  
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III year CSE students are in Flipped class



III year AIML students are in Flipped class



*Handwritten signature*  
Principal  
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