

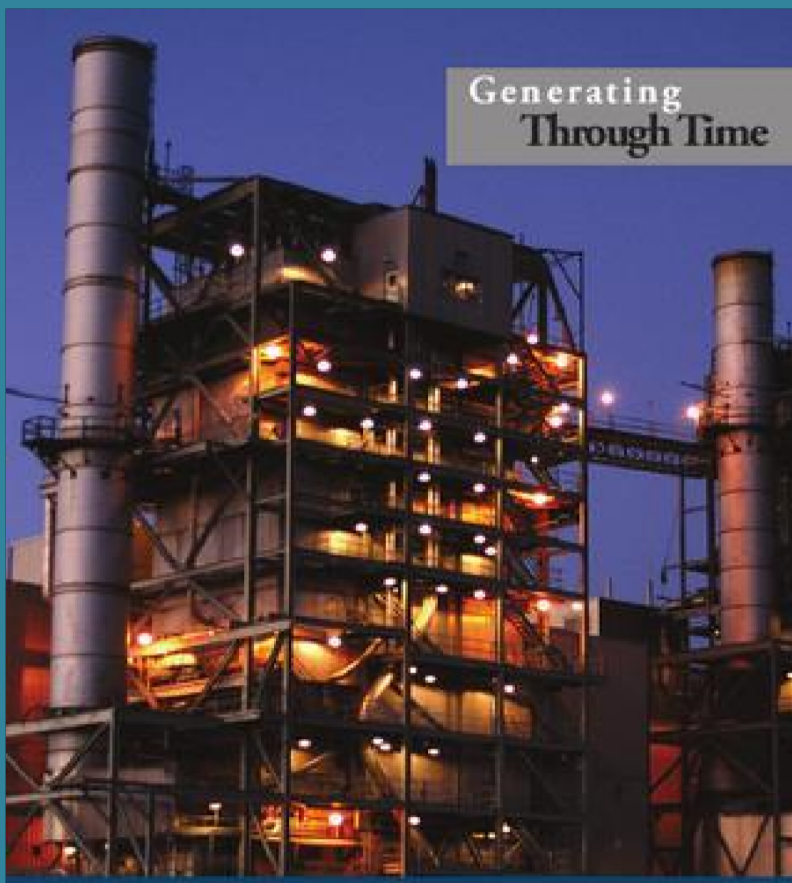
**ELECTRICAL AND ELECTRONICS
ENGINEERING**

Newsletter

Volume: 12

Issue: 01

**July-DEC
2020-2021**



M.A.M. COLLEGE OF ENGINEERING & TECHNOLOGY

Department of Electrical & Electronics Engineering

NEWSLETTER
2020-2021
July-DEC

EDITORIAL TEAM

FACULTY COORDINATOR'S

Assistant Professors:

Mrs.A. Mary Beula

Mr.R. Surendar

Mr.N. Mayavel

STUDENT COORDINATOR'S

S. Ramkumar. -IV Year EEE

A. Sujith -III Year EEE

VISION

To mould the young minds of electrical and electronics engineering professionals with high standard of education, research and innovation to serve the society ethically.

MISSION

- To provide comprehensive education for the students to excel in the field of Electrical and Electronics Engineering.
- To facilitate a supportive environment to enhance research and innovation.
- To impart industry oriented technical skills through collaborative activities
- To inculcate professional ethics and human values among student community.
- To nurture the communication and leadership skills among students through multidisciplinary activities.

PROGRAM EDUCATIONAL OBJECTIVE

PEO1: To equip students with a strong foundation in technical knowledge and skills in Electrical and Electronics Engineering, enabling them to excel in their chosen careers.

PEO2: To develop students' communication skills, enabling them to effectively convey technical information and collaborate with others in a professional setting.

PEO3: To foster creativity and innovation among students, encouraging them to think critically and solve complex problems in Electrical and Electronics Engineering.

PEO4: To instill students to demonstrate ethical behaviour and professional responsibility in their work.

PROGRAM SPECIFIC OBJECTIVE

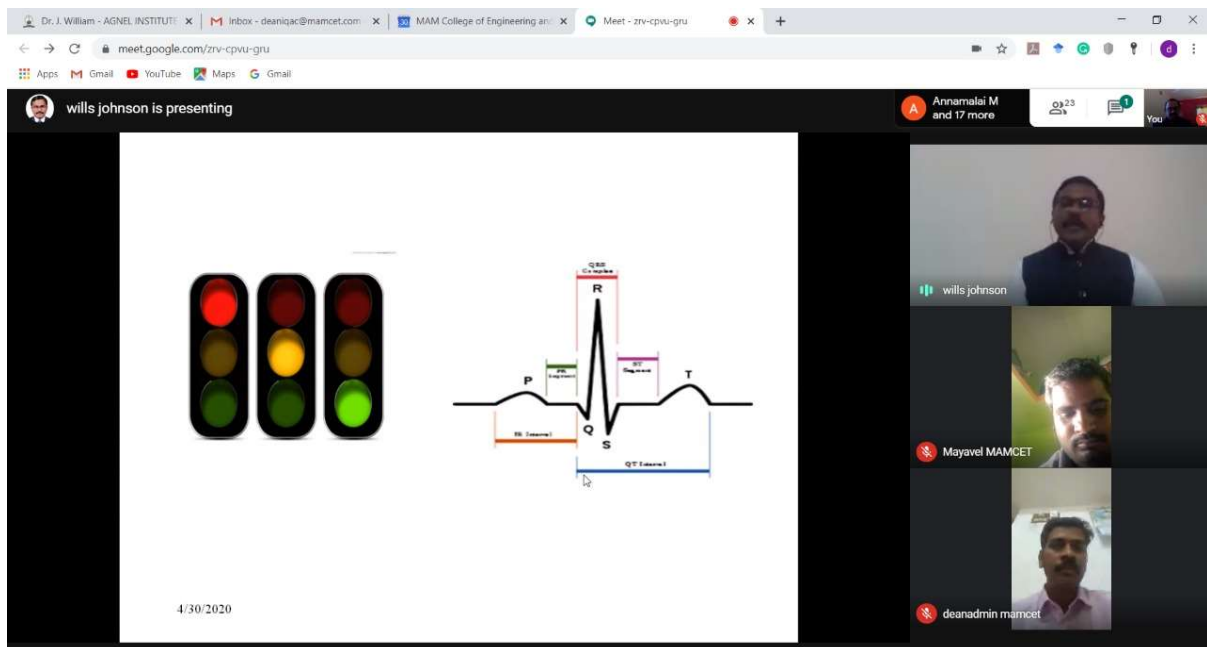
PSO1: To design, develop, and implement modern technologies for solid state devices and circuits, control systems, and power systems by incorporating principles from basic science, engineering science, humanities, and social science.

PSO2: To analyse and evaluate the performance of electrical & electronic systems using simulation and modelling techniques.

Webinar

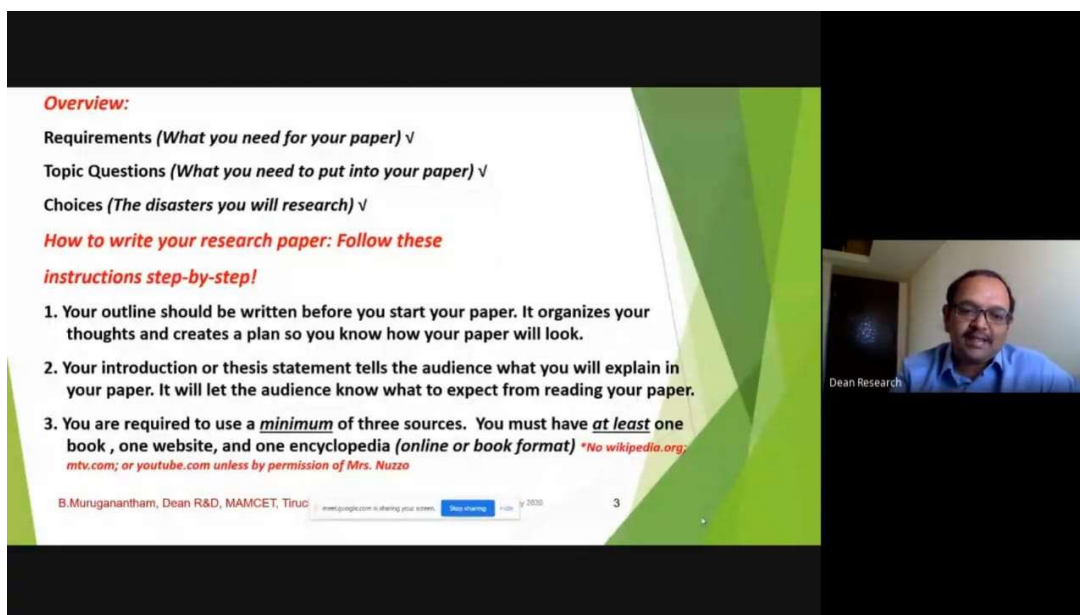
Introduction To the Signals and System

Department of Electrical and Electronics Engineering organized a Webinar session on the topic **“Introduction to The Signals and System”** on 30.04.2020 at 10.00 am to 11.30.00 am through Google Meet. Dr.B. Muruganantham, Dean Research, MAMCET gave the welcome speech. Prof.S. Rajasekaran Head of the department EEE introduced the speaker to the participants. Dr.J. William, Professor and Head, Dept of ECE Agnel Institute of Technology and Design was the resource person. The webinar was mainly about the basics of the Signals and System. He presented his lecture with practical examples which was very interesting. On the whole the webinar opened the eyes of the participants to envision the basics of signals and system. 150 participants including students and faculty members from various institutions had participated and benefited from this session.



The Art of Writing Research Papers

Department of Electrical and Electronics Engineering organized Webinar session on the topic “**The Art of Writing Research Papers**” on 13.05.2020 at 11.00 am to 12.30.pm through Google Meet. Dr.S. Rajasekaren, Dean Admin, MAMCET gave the welcome speech. Prof.S. Rajasekaran Head of the department EEE introduced the speaker to the participants. Dr.B. Muruganantham, Dean Research, M.A.M. College of Engineering and technology was the resource person. The webinar was mainly about how to write a research paper. He presented his lecture with various examples. On the whole the webinar opened the eyes of the participants to envision the guidelines and instructions to write the research paper. 140 participants including students and faculty members from various institutions had participated and benefited from this session.



Overview:

- Requirements (*What you need for your paper*) ∨
- Topic Questions (*What you need to put into your paper*) ∨
- Choices (*The disasters you will research*) ∨

How to write your research paper: Follow these instructions step-by-step!

1. Your outline should be written before you start your paper. It organizes your thoughts and creates a plan so you know how your paper will look.
2. Your introduction or thesis statement tells the audience what you will explain in your paper. It will let the audience know what to expect from reading your paper.
3. You are required to use a minimum of three sources. You must have at least one book, one website, and one encyclopedia (*online or book format*) *No wikipedia.org, mtv.com; or youtube.com unless by permission of Mrs. Nuzzo

B.Muruganantham, Dean R&D, MAMCET, Tiruch

Dean Research

Application of Power Converters in wind power generation

Department of Electrical and Electronics Engineering organized a first Webinar session on the topic “**WIND ENERGY (Generators and Power Converters)**” on 16.05.2020 at 10.00 am to 12.00 am through Google Meet. Dr.B. Muruganantham, Dean Research, MAMCET gave the welcome speech. Prof.S. Rajasekaran Head of the department EEE introduced the speaker to the participants. Dr.K. Yasoda Associate Professor, Department of EEE, GCT Coimbatore was the resource person. The webinar was mainly about the basics of Wind energy. He presented his lecture with practical examples which was very interesting. On the whole the webinar opened the eyes of the participants to envision the basics of power extraction and control of power generation from the wind. 150 participants including students and faculty members from various institutions had participated and benefited from this session.



The poster is for a webinar titled "WIND ENERGY GENERATORS AND POWER CONVERTERS". It features logos for TNEA 3829, M.A.M. College of Engineering & Technology, and MASTER. The text indicates it is organized by the Department of Electrical & Electronics Engineering. The date and time are 16.07.2020 from 10:00 am to 12:00 pm. It is part of the e-Learning Webinar Series #15. The speaker is Dr. K. Yasoda, Associate Professor, Dept. Of EEE, GCT coimbatore. A registration link is provided: <https://forms.gle/WTID9GNerghHBP1Za>, with a closing date of 15.05.2020 at 12 Noon. The footer includes the motto "KNOWLEDGE BASED VALUE ADDED EDUCATION" and three website URLs: www.mamsa.co.in, www.mamcet.com, and www.mambs.com. The poster also includes images of wind turbines and a video camera icon.

TNEA 3829

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621 193

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
organizes

WIND ENERGY
GENERATORS AND POWER CONVERTERS
16.07.2020 | 10.00 am to 12.00 pm,

e-Learning
Webinar
Series **#15**

SPEAKER
DR. K. YASODA
Associate Professor
Dept. Of EEE
GCT coimbatore

Register Online
<https://forms.gle/WTID9GNerghHBP1Za>
Registration Closes by 15.05.2020, 12 Noon

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REC Myth busters : Wind Energy 😊

Myth 2:

KNOCK IT OFF

Wind power is really expensive

	GLOBAL WEIGHTED-AVERAGE COST OF ELECTRICITY (USD/MWH) 2018	CHANGE IN THE COST OF ELECTRICITY 2017-2018
Bioenergy	0.062	-34%
Geothermal	0.072	-1%
Hydro	0.047	-11%
Solar photovoltaics	0.085	-13%
Concentrating solar power	0.185	-26%
Offshore wind	0.127	-1%
Onshore wind	0.058	-11%

Source : Renewable Power Generation Costs in 2018 – International Renewable Energy Agency (2019).

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REC

Introduction :

*Break up of RES all India as on 31.03.2020 is given below (in MW) :

Small Hydro Power	Wind Power	Bio-Power		Solar Power	Total Capacity
		BM Power/Cogen.	Waste to Energy		
4683.16	37693.75	9875.31	147.64	34627.82	87027.68

Source : http://www.cea.nic.in/reports/monthly/installedcapacity/2020/installed_capacity-04.pdf

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Dean Research

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Others in the meeting (80)

Introduction To LABVIEW

Department of Electrical and Electronics Engineering organized a Webinar session on the topic **“Introduction To LABVIEW”** on 21.05.2020 at 10.00 am to 12.00 am through Google Meet. Prof.S. Rajasekaran Head of the department EEE, MAMCET gave the welcome speech. Mrs. A. Mary Beula Associate Professor department of EEE introduced the speaker to the participants. Ms.J. Ajantha patent scientist, Dextrays Private Limited was the resource person. The special note is she was the Alumnus of EEE department-MAMCET. The webinar was mainly about the basics of LABVIEW. She presented his lecture with practical examples which was very interesting. On the whole the webinar opened the eyes of the participants to envision the basics of LABVIEW. She explains how to control the achiness using lab view and how to design the controller. After the session students will be able to work in the LABVIEW. 145 participants including students and faculty members from various institutions had participated and benefited from this session.

TNEA 3B29

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Tiruchirappalli

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
organizes

INTRODUCTION TO LABVIEW

21.05.2020 | 10.00 am to 12.30 pm.

e-Learning Webinar Series **#22**

SPEAKER
MS. AJANTHA J
Patent Scientist
Dextrays private limited

Register Online
<https://forms.gle/cbaaLWDEAJ4C3H4pt9>
Registration Closes by 20.05.2020, 12 Noon

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www.mamcet.ac.in | www.mamcet.ac.in | www.mamcet.ac.in

Artificial Neural Network in Electrical Engineering

Department of Electrical and Electronics Engineering organized a first Webinar session on the topic “**Artificial Neural Network in Electrical Engineering**” on 03.06.2020 at 11.00 am to 12.30 am through Google Meet. Prof.S. Rajasekaran Head of the department EEE, MAMCET gave the welcome speech. Mrs. A. Mary Beula Associate Professor department of EEE introduced the speaker to the participants. Dr. Swaroop Ramasamy, Associate professor, Dept of EEE, Dubai International Academic City, Dubai UAE. patent scientist, Dextrays Private Limited was the resource person. The webinar was mainly about the basics of application of neural network in electrical engineering. He presented his lecture with practical examples which was very interesting. He explains about the role of Neural Network in modern era controlling techniques. After the session students will be able to work in the neural network. 150 participants including students and faculty members from various institutions had participated and benefited from this session.



The poster is for a webinar titled "ARTIFICIAL NEURAL NETWORK IN ELECTRICAL ENGINEERING". It features logos for TNEA 3829, M.A.M. College of Engineering & Technology, and MASTER. The text indicates it is organized by the Department of Electrical & Electronics Engineering. The date and time are 03.06.2020 from 11.00 am to 12.30 pm. The speaker is Dr. Swaroop Ramaswamy, Associate Professor at Dubai International Academic City. The poster also mentions it is part of the e-Learning Webinar Series #35. Registration details include a link to a Google Form and a deadline of 28.05.2020 at 5.00 pm. The footer contains the website addresses: www.mamsa.co.in, www.mamcet.com, and www.mambs.com.

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ARTIFICIAL NEURAL NETWORK IN ELECTRICAL ENGINEERING

03.06.2020 | 11.00 am to 12.30 pm.

e-Learning Webinar Series **#35**

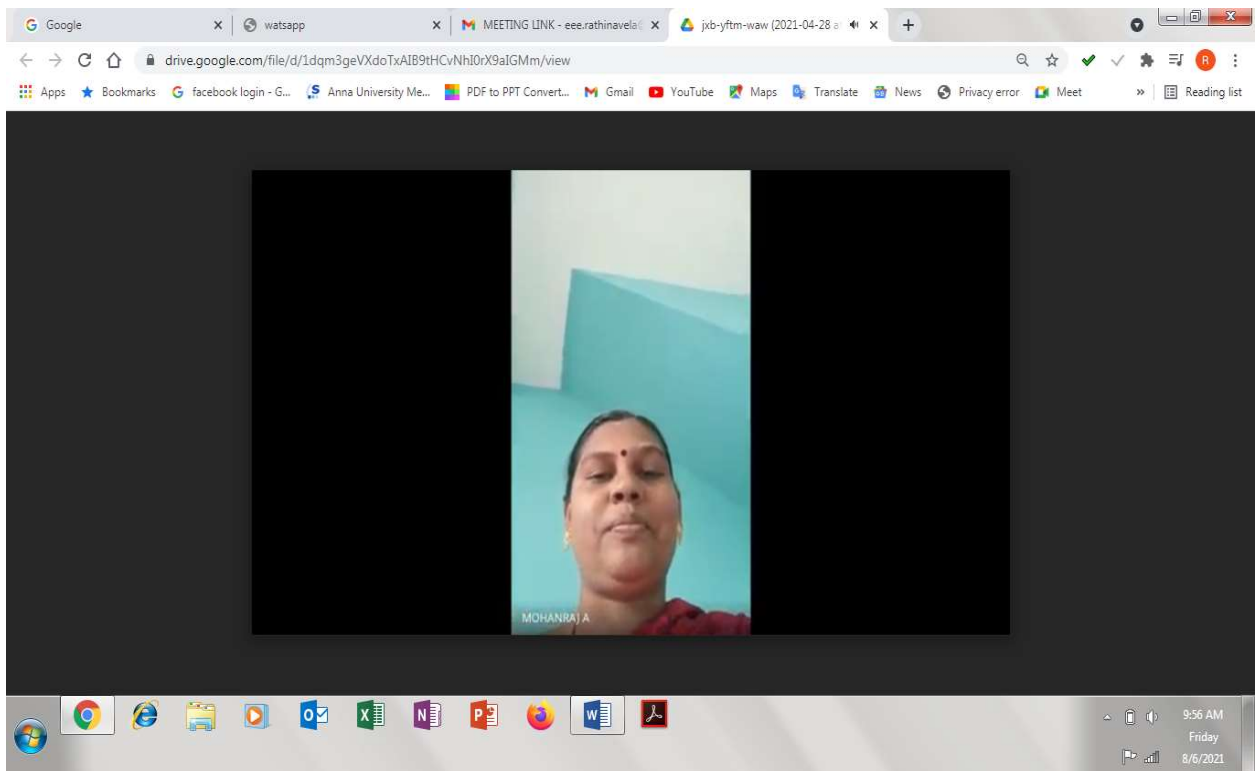
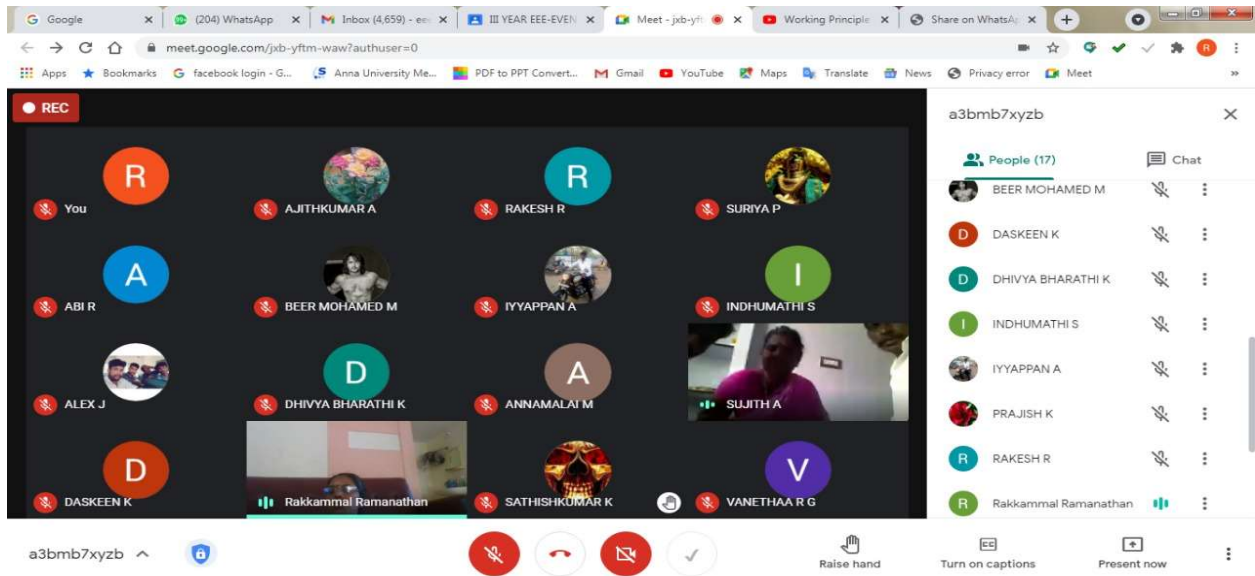
SPEAKER
DR. SWAROOP RAMASWAMY
Associate Professor,
Department of EEE,
Dubai International Academic City,
Dubai, UAE.

Register Online
<https://forms.gle/HjBtCbCImrsvapDm9>
Registration Closes by 28.05.2020, 5.00 pm

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Parents meeting

Parents meeting conducted to our II, III, IV Year students on DEC 2020., in that meeting Mrs.S. Rakkammal HOD/EEE discussed about attendance importance and online courses.



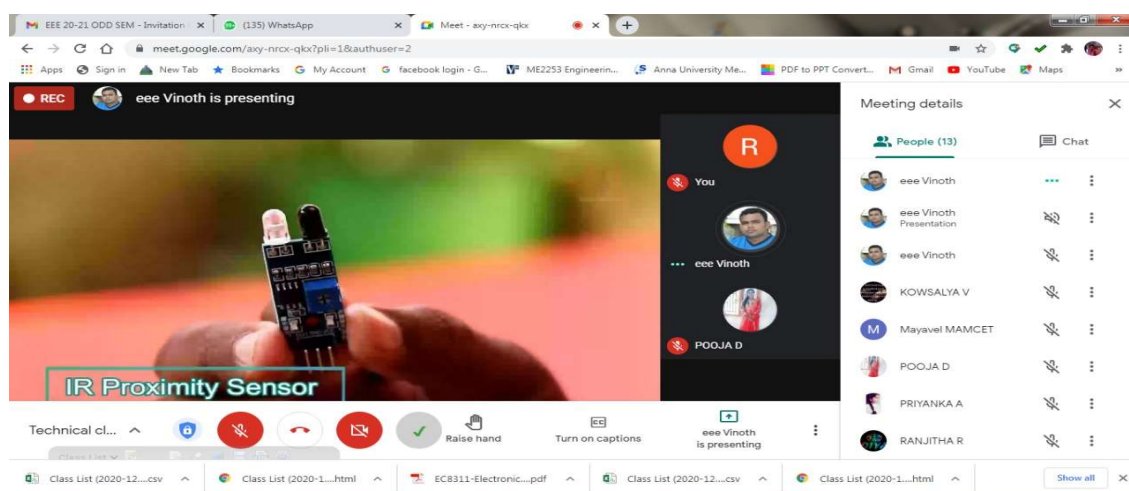
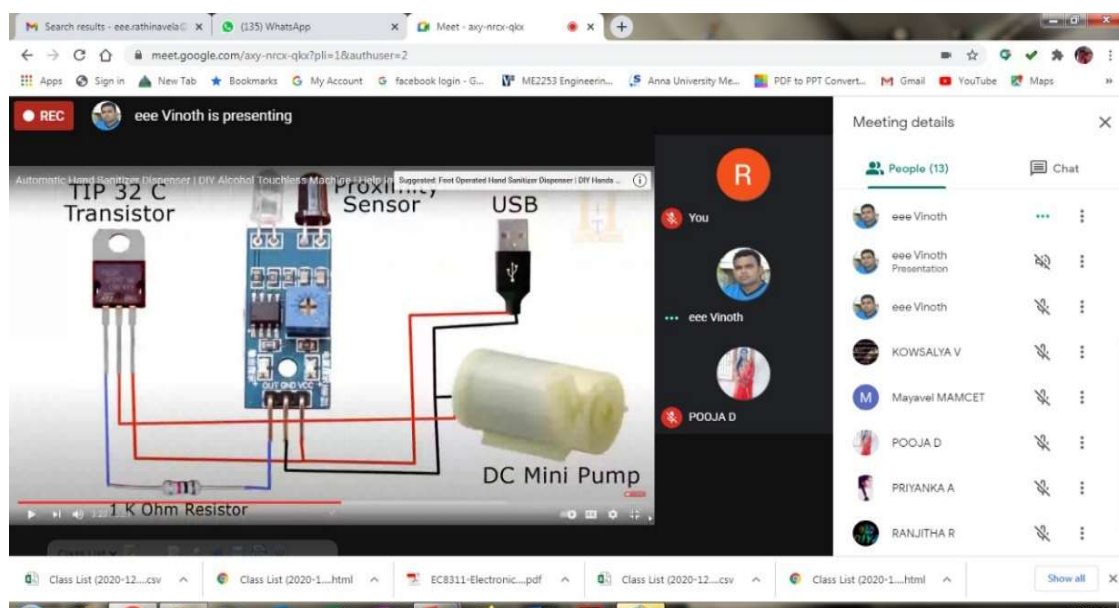
Faculty Development program (FDP)

In our department faculty are attended number of faculty development programs conducted by various leading institutions and industries under the ATAL Scheme sponsored by AICTE that's listed below

S. No	Name of the Faculty	Workshop Title	Name of the organizing Institute
1.	Mrs.A. Mary Beula	Electrical Vehicle	NIT Mizoram
2	Mr. Vinoth Kumar	Smart Cities	Punjab Engineering College Chandigarh
		Electric Vehicle	Jalpaiguri Government Engineering College West Bengal
3	Mr.R. Vadivelan	Electric Vehicle	Aditya Institute of Technology and Management Andra Pradesh
		Energy Storage	Jawaharlal Nehru National College of Engineering Karnataka
4	Mr.N. Mayavel	Renewable Energy	College OF Engineering Pune
		Internet Of Things	IIT Kerala
5	Mr.A. Rathnavel	Green Technology & Sustainable Engineering	St. Joseph's College of Engineering Tamil Nadu
		Energy Engineering	K.L.N. college of Engineering Tamil Nadu
6	Mr. Surendar	Energy Engineering	IIT Roorkee
		Smart Cities	IIT Dharwad
		Power Electronics application in Machine Drives and Power system	NIT Patna

Value Added Course

Our II Year and III Year EEE students attended 10 days Hands on Training about ARDUINO from 20.11.2020 TO 5.12.2020. It is conducted by Mr.M. Vinothkumar AP/EEE, Mr.A. Rathinavel AP/EEE and Mr.R. Surendar P/EEE. The Course was about IoT for real time applications, from which students started to do own project by using ARDUINO Kit and second Value Added Course on Energy Management and Energy Auditing by Mrs.A.Mary beula, Mr.R.Vadivelan, Mr.N.Mayavel, Assistant Professor's EEE, MAMCET



The value added course was conducted by Dr.Kevin Ark Kumar, Manager BHEL, Trichy & Dr.Selvaraj Professor,REC, Chennai on 14.12.2020 to 24.12.2020 about 'Electric and Hybrid Vehicles'. This training programme mainly focused on electric vehicle and hybrid vehicle system design and analysis in Electrical system. Totally 92 students attended and applauded the programme to a great extent.

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