

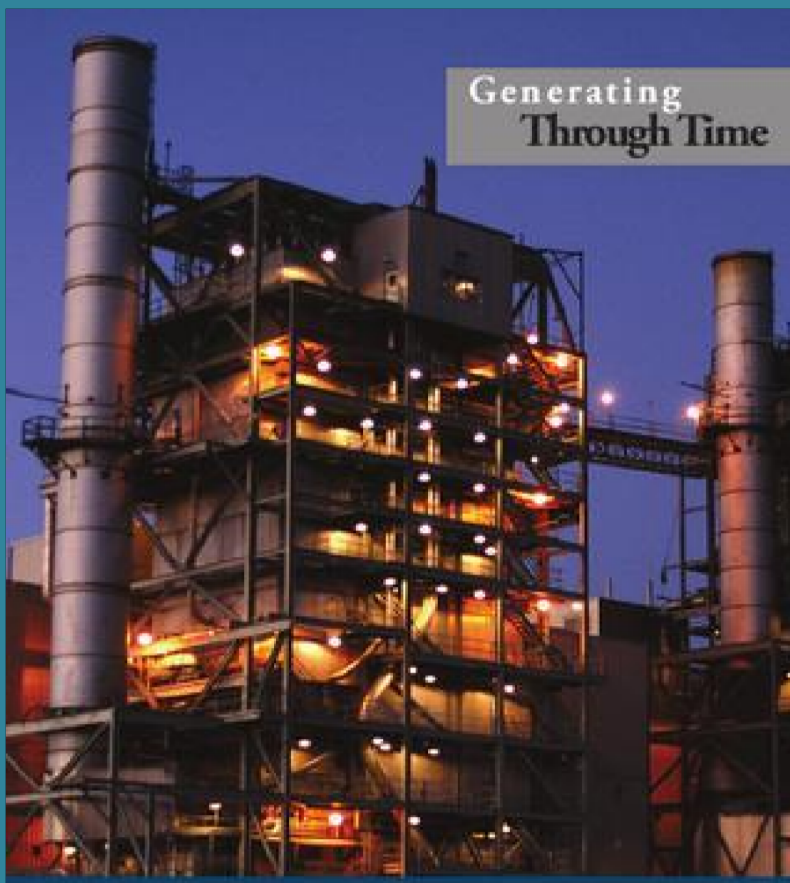
ELECTRICAL AND ELECTRONICS ENGINEERING

News letter

Volume: 12

Issue- 02

**Jan - Jun
2020-2021**



M.A.M. COLLEGE OF ENGINEERING & TECHNOLOGY

Department of Electrical & Electronics Engineering

**NEWSLETTER
2020-2021
Jan – Jun**

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 behavior 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 analyze and evaluate the performance of electrical & electronic systems using simulation and modeling techniques.

Webinar

The session was started with welcome address by Dr.S.Rajasekaran, Head of Electrical and Electronics Engineering Department. After Vision, Mission, PEO's and PSO's of EEE department was discussed and it was followed by resource person Mr.Rasadurai Murugesan. He started the webinar by giving an introduction about goals of automation. He detailed about PLC control panel and hard wired relay. Then he elaborately discussed about ladder logic and its comparison to relay logic. Further he moved to ladder logic programming. Then he explained the basic of symbols and notations, the he moved to timer and counters. Further he detailed about input and output components. Finally the webinar was end up with vote of thanks by Mrs.A.Mary Beula,AP/EEE.

**M.A.M. College of Engineering and Technology**
Department of EEE in Association with
IE(I) Students Chapter, Tiruchirappalli organizing

DATE
&&
TIME

04.02.2021
&&
10 A.M

Webinar on
“Industrial Automation Using PLC”



Speaker
Mr.Rasadurai Murugesan
Lead Engineer,
GM Tech Centre India,
Bangalore.



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www.mamcet.com

Trichy – Chennai Trunk Road, Siruganur, Tiruchirappalli – 621 105

REC G Sivabalan is presenting

INDUSTRIAL AUTOMATION COMPONENTS
AUTOMATION
SCADA
Supervisory
Control &
Data Acquisition
(SOFTWARE)
PLC
Programmable
Logic
Control
(Hardware +
Software)
FIELD
INSTRUMENTS



1:21 AM | Erection and Commissioning of Solar Panel

Webinar

Intellectual Property Rights

The session was started with welcome address by Dr.S.Rajasekaran, Head of Electrical and Electronics Engineering Department. After Vision, Mission, PEO's and PSO's of EEE department was discussed and it was followed by resource person Er.L.M.Subramanian. He started the webinar by giving an introduction about patent. He detailed about conditions of patentability, patentable and non-patentable inventions. Then he elaborately discussed about process patent and product patent. Further he moved to patent Publication. Then he explained about work for development, promotion, protection, compliance and enforcement of intellectual property and patenting. Finally the webinar was end up with vote of thanks by Mrs.A.Mary Beula,AP/EEE.

**M.A.M. College of Engineering and Technology**
Department of **EEE** in Association with
IE(I) Students Chapter, Tiruchirappalli organizing

DATE && TIME	17.02.2021 && 10 A.M
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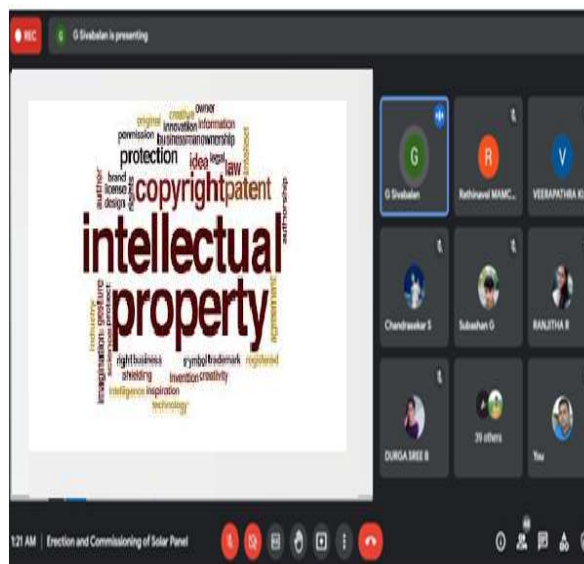
Webinar on
“Intellectual Property Rights”



Speaker
ER.L.M.SUBRAMANIAN
SENIOR MANAGER,
R&D,MHD CENTER,
BHEL, TRICHY.

**MASTeR**
Group of
Institutions

www.mamcet.com
Trichy - Chennai Trunk Road, Siruganur, Tiruchirappalli - 621 105



Energy Auditing



MAM CET

DATE
&&
TIME

26.02.2021
&&
10 A.M

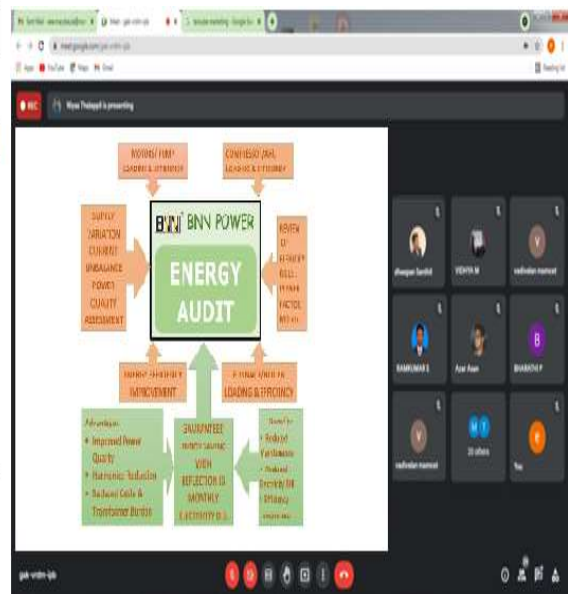
M.A.M. College of Engineering and Technology
 Department of **EEE** in Association with
IE(I) Students Chapter, Tiruchirappalli organizing

Webinar on "Energy Auditing"



Speaker

Dr.Venkatanarayanan
 Professor,
 Department of EEE
 KLN College of Engineering



Webinar

“Development of Power Electronics and control in shipping Industries”

ER.M.SEENI Third Engineer from Anglo Eastern Company has taken webinar in the topic “Development of Power Electronics and control in shipping Industries” on 13 March 2021. All our Department students and staff attended this webinar. Got clear ideas about the opportunity in shipping. He impart knowledge about his real time experience in that area. He explained the role of power electronics based devices in the marine area.

M.A.M. COLLEGE OF ENGINEERING & TECHNOLOGY
Siruganur, Tiruchirappalli – 621 105,
(Approved by AICTE & Affiliated to Anna University Chennai)

Department of Electrical and Electronics Engineering
organizes

**Development of Power Electronics Drives
and control in Shipping Industries**

ONLINE WEBINAR SERIES #53

RESOURCE PERSON
ER.M.SEENI
Third Engineer,
Anglo Eastern Shipping Company,
Pvt Ltd, Hongkong

DATE & TIME
Saturday, March 13, 2021,
11:00 AM to 12:30 PM IST

DURATION
90 mins

**WINGS
OF WISDOM**

JOIN US
<https://meet.google.com/jev-vixe-ibw>

KNOWLEDGE BASED VALUE ADDED EDUCATION www.mamcet.com

REC Seeni M is presenting

Automatic fault detection and alarm

Lubricant flow fault rectified
Bearing temperature fault rectified

Meeting details

class-list (2021-2)-html

Activate Windows
Go to Settings to activate Windows

Smart Grid

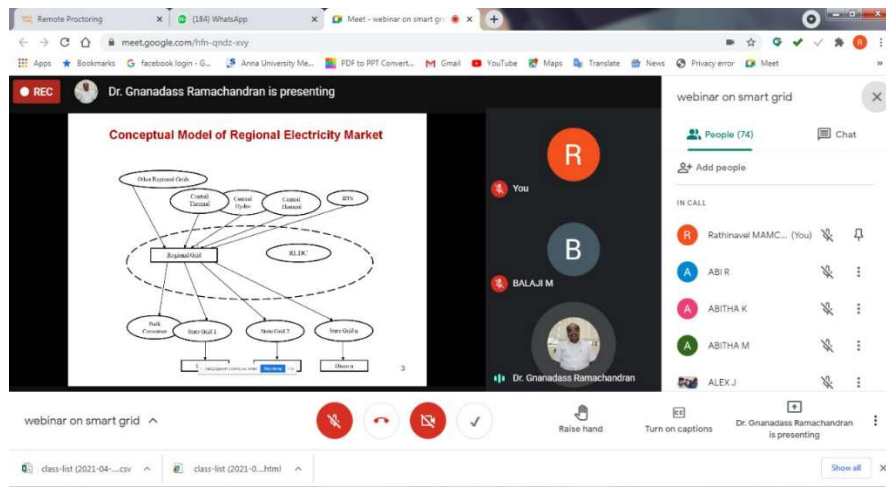
Dr.R.Gnanadass Professor from Pondicherry Engineering College , Puducherry has taken webinar about Smart Grid on 08 April 2021 ,Students got well Technical Knowledge during this session.

he explained the areas of

1. Indian power sector
2. Deregulation
3. Renewable Energy Market
4. History of Indian energy sector



The poster is for an online webinar series titled "Smart Grid". It is organized by the Department of Electrical and Electronics Engineering at M.A.M. College of Engineering & Technology, Siruganur, Tiruchirappalli - 621 105. The resource person is Dr. R. Gnanadass, Professor at the same department. The webinar is part of the "ONLINE WEBINAR SERIES #61" and is scheduled for Thursday, April 08, 2021, from 02:00 PM to 04:00 PM IST, lasting 180 minutes. The poster includes a QR code for joining the webinar at <https://meet.google.com/hfn-qndz-xvy>. The logo "WINGS OF WISDOM" is also present.



The screenshot shows a Google Meet session titled "webinar on smart grid". The host, Dr. Gnanadass Ramachandran, is presenting a slide titled "Conceptual Model of Regional Electricity Market". The slide contains a diagram showing the flow of electricity from various sources (Wind, Solar, Hydro, etc.) through a central "Regional Electricity Market" to different consumers (Residential, Commercial, Industrial, etc.). The Meet interface shows a list of participants, including "You", "Rathinavel MAMC...", "ABIR", "ABITHA K", "ABITHA M", and "ALEX J". The bottom of the screen shows the "class-list (2021-04-...)" and "class-list (2021-0-...)" tabs.

Webinar

Testing and Commissioning of substation equipments

The webinar was started with a welcome address by Dr.S. Rajasekaran, Head of the Electrical and Electronics Engineering Department. After Vision, Mission, PEO's and PSO's of EEE department were discussed. The webinar was presented by Er.R.Vignesh, Project Engineer, Berkeley Services UAE about the basics of application of neural network in electrical engineering. He presented his lecture with practical examples which was very interesting. He discussed how to detect the faults in electrical machines and can increase the function of new entry detection when compared to the conventional method. In proposed artificial neural network has increased the precision and stability of system performance. The session ends up with a vote of thanks by Mr.N. Mayavel, Assistant Professor, and Department of EEE.



MONDAY
28 MAR

TIME
11.00 AM - 12.00 PM

M.A.M. College of Engineering and Technology
Department of EEE in Concert with **Embedded Club** Organizing
Online Webinar on
" Testing and Commissioning of substation equipments "



Speaker

Er. R. Vignesh
Project Engineer
Berkeley services
UAE.

About Webinar
This program helps to discover that tech is being developed for training, to bridge the skills gap and provide you with the knowledgeable workforce you need. Inside the world of industrial automation, manufacturing and process automation continues to increase rapidly due to the many benefits it provides. For example, while requiring minimal human intervention, productivity and efficiency can be improved.

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<https://meet.google.com/txz-enbv-ytw>
www.mamcet.com
Trichy - Chennai Trunk Road, Siruganur, Tiruchirappalli - 621 105



Webinar

Fundamentals in Ethics of Technology

Webinar held on 16.04.2021 by resource resource person Mr.Naveen Kumar,Govindaraj, Senior Testing Engineer, CTS, Bangalore. He started the webinar by giving an introduction about what is energy audit and its objective. He detailed preliminary energy audit and detailed energy audit. Then he elaborately discussed methodology for conducting energy audits. Then he explained about three phases of detailed energy audit. Then he explained about energy audit instruments and their usage. He elaborately discussed about characteristics of good energy auditor and auditing techniques.

Online Course

GUVI Course

GUVI , an IIT Madras Incubated Company jointly with AICTE, a statutory Body of the Government of India conducted to launch India's Biggest Coding Revolution #AI-for-India 1.0 that spear heads to break the 'Guinness World Record' with Python Programming skills in a one day online workshop. From our Department all staff members participated and got E-certificates



"Education is priceless & no one can steal it from you"
-Sridevi, Co-founder & Ex-COO of GUVI

CERTIFICATE OF PARTICIPATION

This is to certify that
N.Mayavel N
has successfully completed participating in **The Guinness World Record Event –
Most users to take an online computer programming lesson in 24 hours**
on April 24th 2021, 6PM to April 25th 2021, 6PM



S.P. Balamurugan
Co-Founder, CEO

Valid certificate issue on : May 1 2021

Valid certificate ID : u69508b1Ix19IA4x5h



"Education is priceless & no one can steal it from you"
-Sridevi, Co-founder & Ex-COO of GUVI

CERTIFICATE OF PARTICIPATION

This is to certify that
Rathinavel A
has successfully completed participating in **The Guinness World Record Event –
Most users to take an online computer programming lesson in 24 hours**
on April 24th 2021, 6PM to April 25th 2021, 6PM



S.P. Balamurugan
Co-Founder, CEO

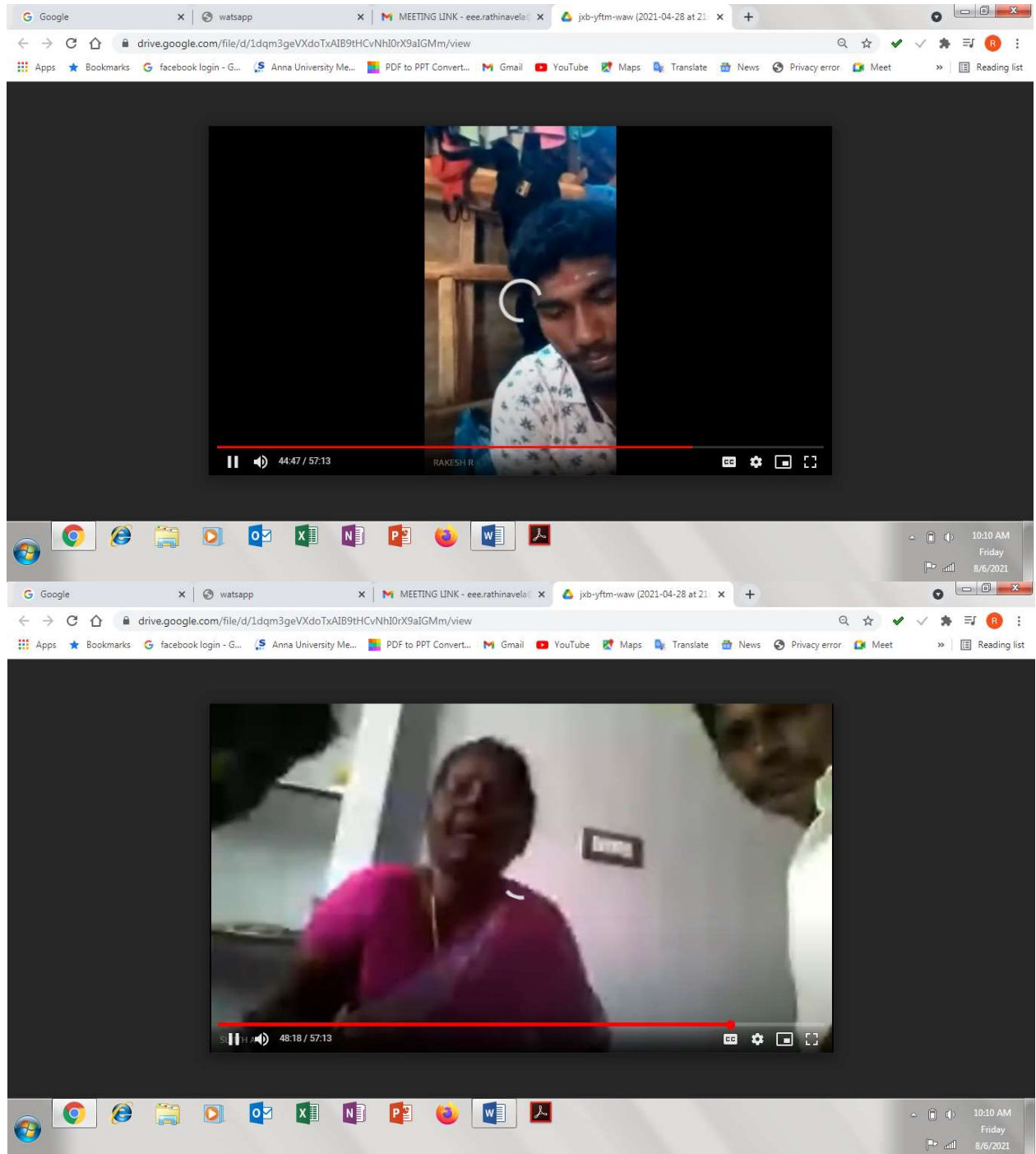
Valid certificate issue on : May 1 2021

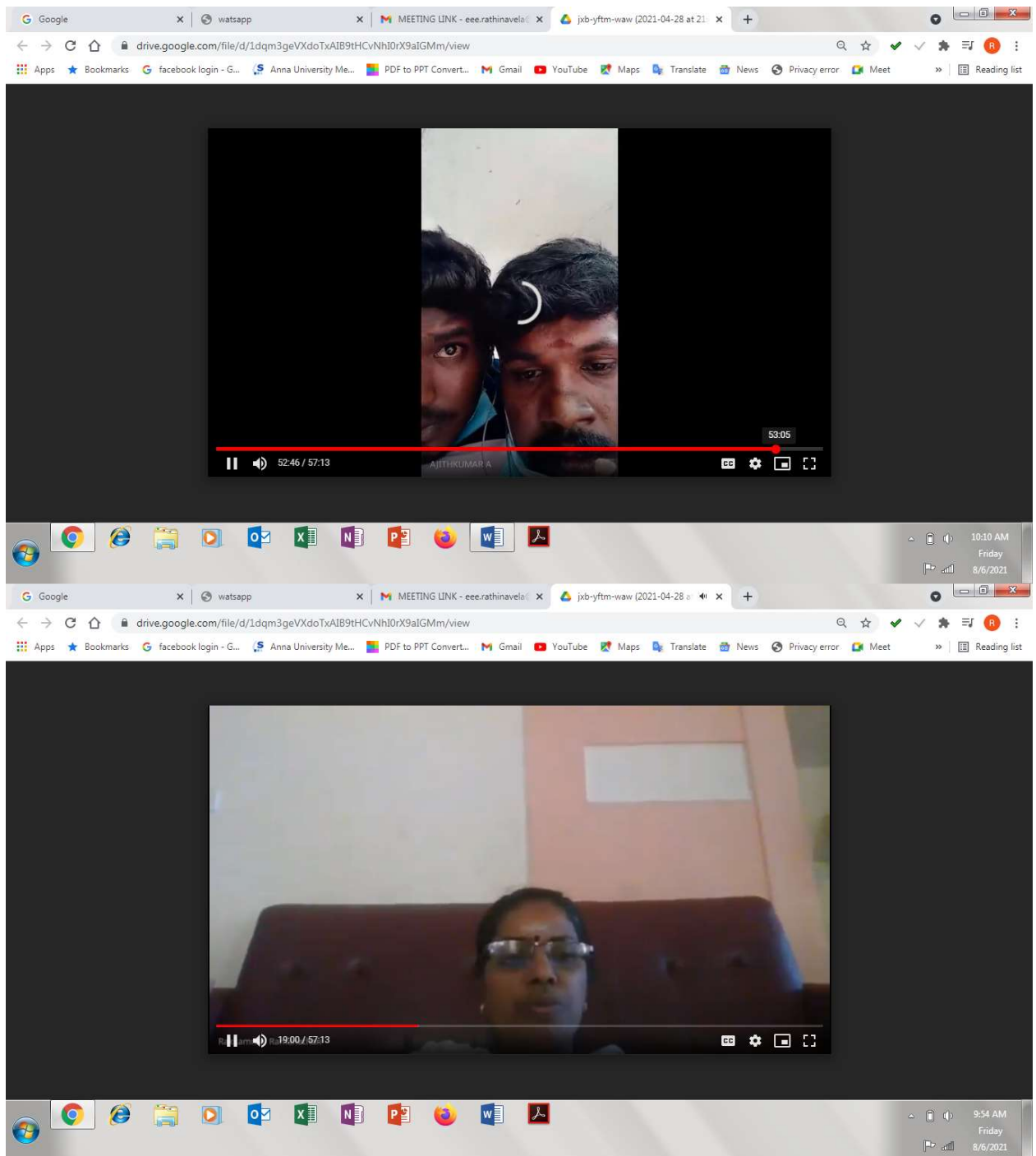
Valid certificate ID : 408cXvk77L19917ez6

Verify certificate at: www.guvi.in/certificate?id=408cXvk77L19917ez6

Parents meeting

Parents meeting conducted to our II,III,IV Year students on 24 Apr 2021. , in that meeting Mrs.S.Rakkammal HOD/EEE discussed about attendance importance and online courses.





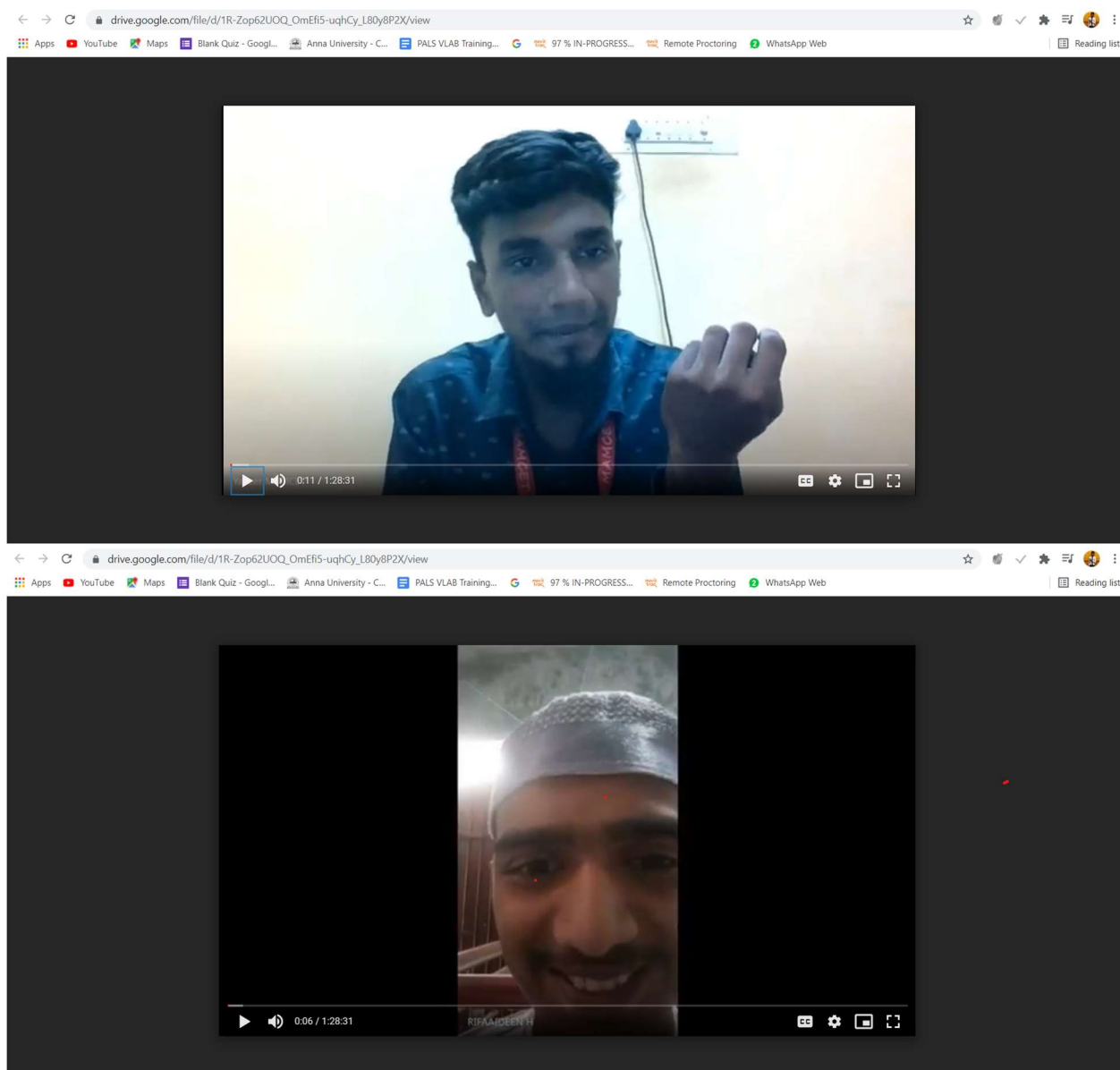
Mentor Mentee Meeting

In our department we conducted a mentor mentee meeting on 28th -29th May 2021 in this meeting mentor discussed about the importance of online classes and give the awareness about the university open book exams

Meeting Link -1. [mjr-yyyi-wtn \(2021-05-28 at 21:54 GMT-7\)](https://meet.google.com/mjr-yyyi-wtn)

Meeting Link 2-

<https://mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgzGkZkQRxCbqrVLkHwmlDRHnGxWQ?projector=1>



Faculty Development program (FDP)

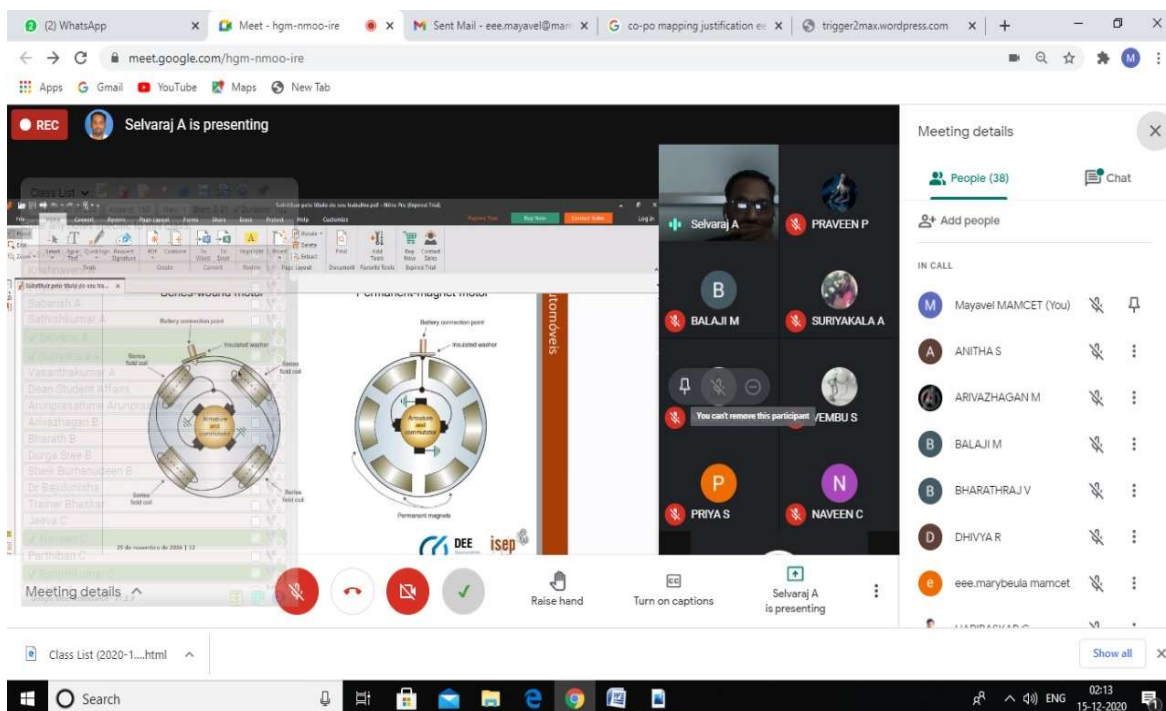
In our department faculty are attended number of faculty development programs conducted by various leading institutions and industries under the ATAL Scheme sponsored by AICTE that's are listed below

S.No	Name of the Faculty	Workshop Title	Name of the organizing Institute
1	Prof.S.Rakammal	Power Electronics Application in Machine Drives and Power System	NIT Mizoram
2	Prof.A.Mary Beula	Power Electronics Application in Machine Drives and Power System	NIT Mizoram

Value Added Courses (VAC)

After getting suggestions and feedback from all department faculty members, academic experts Dr.Selvaraj, Prof, REC, Chennai and industrial expert Mr.Kevin,Senior Manager,BHEL,Trichy it is decided to conduct VAC on the subject EVA016--Eelectric and Hybrid vehicles since it is an emerging trend in the field of Electrical Engineering and there is a lot of scope for the students in their future career.

S.No	Year	Title	Resources	Period
1.	IV	EVA016--Eelectric and Hybrid vehicles	1. Dr.Selvaraj, Prof, REC, Chennai. 2. Mr.Kevin, Senior Manager, BHEL,Trichy	



4G 43.0K/s 1:15 PM

xpd-wkae-wdo

The low pass EMC filter takes the high frequency element and filters it out so that the current seen by the mains supply is not too high.

REC

AC Input

Low pass EMC Filter

L1

Vfeedback

S1

C1

Vfsense

Current Sense

U1

X Multiplier

U2

PWM

PFC Controller IC

vadivelan mamcet

Inbox (3.847) - a.beula76@gmail.com X (no subject) - eee.marybeula@gmail.com X Meet - kvg-ovtb-rgy

meet.google.com/kvg-ovtb-rgy

REC vadivelan mamcet is presenting

Meeting details

People (47)

Chat

- Zinc comes out in the sulfuric acid solution as positive ion
- It reacts with negative SO_4^{--} ion of the solution and forms zinc sulfate (ZnSO_4).
- The positive hydrogen ions of the sulfuric acid solution have a tendency to get deposited on the copper plate.
- More zinc ions coming out in the solution means more number of electrons leave in the zinc plate.
- These electrons then pass through the external conductor connected between zinc and copper plates.

Courtesy : www.electrical4u.com

Kevin Ark Kumar NITHIYA S vadivelan mam... VEMBU S SURYAKALA A HOD EEE HARIBASKAR G

08:25 17-12-2020

Technical Training

We conducted the technical training on Energy management energy auditing. Faculty from our department give lectures on how to do the data analysis energy auditing. In this training students got the data from our institution for the energy management and energy auditing



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