



Department of Electrical and Electronics Engineering

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Tesla, Inc. (/ˈteslə/ *TESS-lə* or /ˈtezlə/ *TEZ-lə*^[a]) is an American electric vehicle and clean energy company based in Palo Alto, California, United States, with plans to move its headquarters to Austin, Texas. Tesla designs and manufactures electric cars, battery energy storage from home to grid-scale, solar panels and solar roof tiles, and related products and services. In 2020, Tesla had the most sales of battery electric vehicles and plug-in electric vehicles, capturing 16% of the plug-in market (which includes plug-in hybrids) and 23% of the battery-electric (purely electric) market. Through its subsidiary Tesla Energy. Tesla Energy is also one of the largest global suppliers of battery energy storage systems, with 3 gigawatt-hours (GWh) installed in 2020. In September 2021, the National Highway Traffic Safety Administration (NHTSA) ordered Tesla to submit data pertaining to all sold US vehicles equipped with Autopilot.



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Faculty Development Program

Our faculty members, **Mr.N.Mayavel AP/EEE** and **Mr.R.Surendar AP/EEE**, attended a one-day online Faculty Development Programme on “**Power System Design & Analysis using DigSILENT Power Factory Software**” sponsored by **DELLSOFT Technologies Pvt. Ltd.** New Delhi on 01st Aug 2022.



M.A.M. College of Engineering and Technology / Dept of EEE /
Newsletter Dec 2022





MAMCET
M.A.M. COLLEGE OF
ENGINEERING
& TECHNOLOGY

VISION AND MISSION

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 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.

PEO

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.

PSO

Faculty Development Program

- ❖ Our faculty members, Mr.N.Mayavel AP/EEE and Mr.R.Surendar AP/EEE, attended a one-day online Faculty Development Programme on “Micro System Design & Simulation using HOMER Pro & Homer grid Software” sponsored by DELLSOFT Technologies Pvt. Ltd. New Delhi on 03rd Aug 2022



- ❖ Mr.R.Surendar AP/EEE, attended a two-day Faculty Development Programme on “Smart grid Simulation” sponsored by IEE Madras Section, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai 21st to 22nd December 2022



Department Association Function:

Our Department inaugurated an association function TESLA'22 by Dr.S.Dharmalingam, Visiting Professor, NIT, Trichy on 01st Sep 2022 on the college premises. He delivered his keynote address on “Importance of Energy Storage Systems for reliable Decarbonized Electricity Systems”. Both faculty and students actively participated in the programme and they got the opportunity to enhance their knowledge on various real time projects in the field of electrical and electronics.



IIT Research Park

Our department students attended the program on “Envision- India’s First Energy Festival” at Indian Institute of Technology, Research Park at Chennai from 03rd Nov 2022 to 5th Nov 2022. Through this programme, our students got more information regarding in Renewable Energy Sources. The students opined that the programme was very informative and useful for them.



WEBINARS AND WORKSHOP

A webinar was presented by **Dr.S.Dharmalingam**, Manager, BHEL-Trichy, on **01.09.2022** about **'Importance of Electrical Storage system with reliable decarbonized system'**. This programme mainly focused on electrical storage system with reliable decarbonized system.. The students applauded the programme to a great extent. Finally 83 students were actively participated and got benefitted from the webinar.

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M.A.M. College of Engineering and Technology
Approved by AICTE and Affiliated to Anna University
Siruganur, Tiruchirappalli - 621 105

Department of EEE Organizing
Inauguration of TESLA'22 (An Association of EEE)
"The Institution of Engineers (India) Students Chapter, Tiruchirappalli"

Inaugurated by **Keynote Address**

Dr. S. Dharmalingam
Visiting Professor
National Institute of Technology
Tiruchirappalli

" Importance of Energy Storage Systems for reliable Decarbonized Electricity systems "

Venue & Time
Thursday, 01st September, 02:30 PM
Corea Hall,
MAM College of Engineering and Technology.

MASTER Group of Institutions
www.mamcet.com
Trichy - Chennai Trunk Road, Siruganur, Tiruchirappalli - 621 105

A workshop was conducted by **Er.S. Deepan**, Embedded Developer & Manager, WITSPIRE, Trichy on **28.10.2022** about **'Application of Embedded Systems in Electric vehicle'**. This programme was mainly focused on the basic concept of embedded system design and electric Vehicle. The session was more informative. 81 students actively participated and got benefitted from the workshop.



SEMINARS

A Seminar was presented by **Er.G.Sivabalan**, Sr. Project Engineer, Gensol Solar Engineering Pvt Ltd on **26.08.2022** about **'Environmental friendly High Voltage insulation system'**. This programme was focused on the electrical high voltage insulation system. The session was more informative. Totally 81 students actively participated and got benefitted from the seminar.



The seminar was presented by **Er.A. Abdhaheer**, Sr. Testing and Commissioning Engineer, SPK Power infra-Pvt Ltd on **18.8.2022** about **Design and modeling of E-Vehicle**. The main discussion in the seminar was about Electric vehicles (EV), including Battery Electric Vehicle (BEV), Hybrid Electric Vehicle (HEV), Plug-in Hybrid Electric Vehicle (PHEV), Fuel Cell Electric Vehicle (FCEV). He explained the main EV components and its technologies that are currently in use or can become prominent in the future. 82 students actively participated and benefitted.

MAMCET
M.A.M. College of Engineering and technology
Webinar On
DESIGN AND MODELING OF E-VEHICLE
DEPARTMENT OF EEE

Speaker

Er. A. Abdhaheer
Sr. Testing and commissioning Engineer
SPK Power infra Pvt Ltd.

DATE & TIME
18.08.2022

VENUE
NEWTON HALL

MASTER Group of Institutions
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Hands On Training:

Our department III and IV year students organized hands on training on Innovative Electronics on 17.09.2022. Through this training, junior students got more technical skills and to enriched their knowledge in real time applications. The session was more informative. 40 students actively participated and benefitted.



PALS Event:

A webinar was presented by Dr.V.Kamakotti, Director, IITM, Chennai on 12.08.2022 about 'IIT PALS Study Circle for GATE / JAM - Launch Event'. This programme mainly focused on how to prepare GATE and JAM exam for higher education and reputed jobs. The students applauded the programme to a great extent. 80 students were actively participated and got benefitted from the webinar.

PALS Event:

A webinar was presented by Dr. Souvik Barat , Principal Scientist, Tata Consultancy Services Research, India on 25.08.2022 about 'Enterprise Digital Twin as a risk free experimentation aid for business and social systems'. This programme mainly focused on risk free experimentation aid for business and social systems. The session was more informative. Finally 81 students actively participated and got benefitted from the webinar.

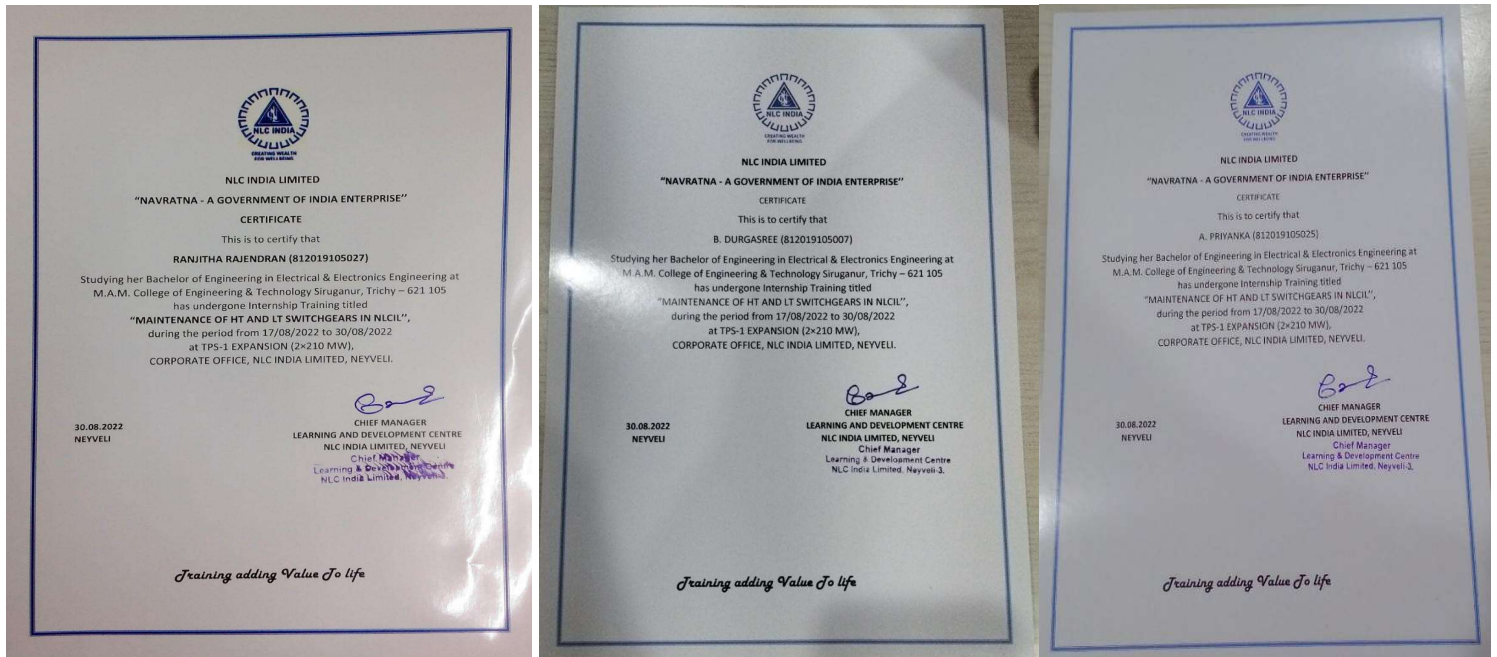
A webinar was presented by Ms. Padarthi Padmaja, Chief Executive Officer, Next generation 3d printer private limited, Chennai on 22.09.2022 about '3D Printing and its applications'. This programme focused on recent application of 3D Printing. The students applauded the programme to a great extent. Totally 82 students were actively participated and got benefitted from the webinar.

A webinar was presented by Mr. KrishnaKanth Naik, Senior Escalation Engineer, IBM India Pvt. Limited on 27.10.2022 about 'AI Driven trends in Healthcare'. This programme mainly focused on how the Artificial intelligence involed in health care system. The session was more informative. 83 students actively participated and benefitted.

A workshop was conducted by Dr. Ashish kumar Sahani, AP, IIT Ropar on 03.11.2022 about 'Pathway from Engineering to Product Development and Entrepreneurship'. This programme mainly focused on Engineering to Product Development and Entrepreneurship. The session was more informative. Totally 82 students actively participated and got benefitted from the workshop.

Internship Programme:

Our department seven of final Year EEE students underwent their internship training titled “MAINTENANCE OF HT AND LT SWITCHGEARS IN NLCIL” from 17.08.2022 to 30.08.2022 in NLC INDIA LIMITED, Neyveli. Through this training programme, they got more technical skills applied in real time applications.



STUDENT ACHIEVEMENT

- ❖ Our department II Year EEE student D.Abdul Ajees participated in National level Technical Symposium KTECH FESTA'22 organized by Kuriniji College of Engineering and Technology, Manapparai on 14.10.2022. He won first prize in 'Paper Presentation'. He was presented with a certificate and a shield on the occasion.
- ❖ Our department II Year EEE student D.Abdul Ajees participated in National level Technical Symposium ROEVER TECHNO MEET-2K22 organized by Rover Engineering College on 28.10.2022. He won second prize in the event 'Paper Presentation'. He was presented with a certificate and a shield on the occasion.



- ❖ Our department II Year EEE student D.Abdul Ajees participated in National level Technical Symposium ACME-2K22 organized by MAM School of Engineering on 26.11.2022. He won first prize in the event 'Paper Presentation'. He was presented with a certificates and a shield on the occasion



Student Achievement:

- ❖ Our department students G.Geosh Salvius, A.Deenathayalan and J.Tamizharasan participated in National level Technical Symposium UNIQUE-2K22 organized by Dhanalakshmi Srinivasan Engineering College, Perambalur on 30.09.2022. They won first prize in 'Paper Presentation'. They were presented with certificates and shields on the occasion.



- ❖ Our department students R.Ranjitha and A.Priyanka participated in National level Technical Symposium UNIQUE-2K22 organized by Dhanalakshmi Srinivasan Engineering College, Perambalur on 30.09.2022. They won second prize in 'Paper Presentation'. They were presented with certificates and shields on the occasion.

Industrial Visit:

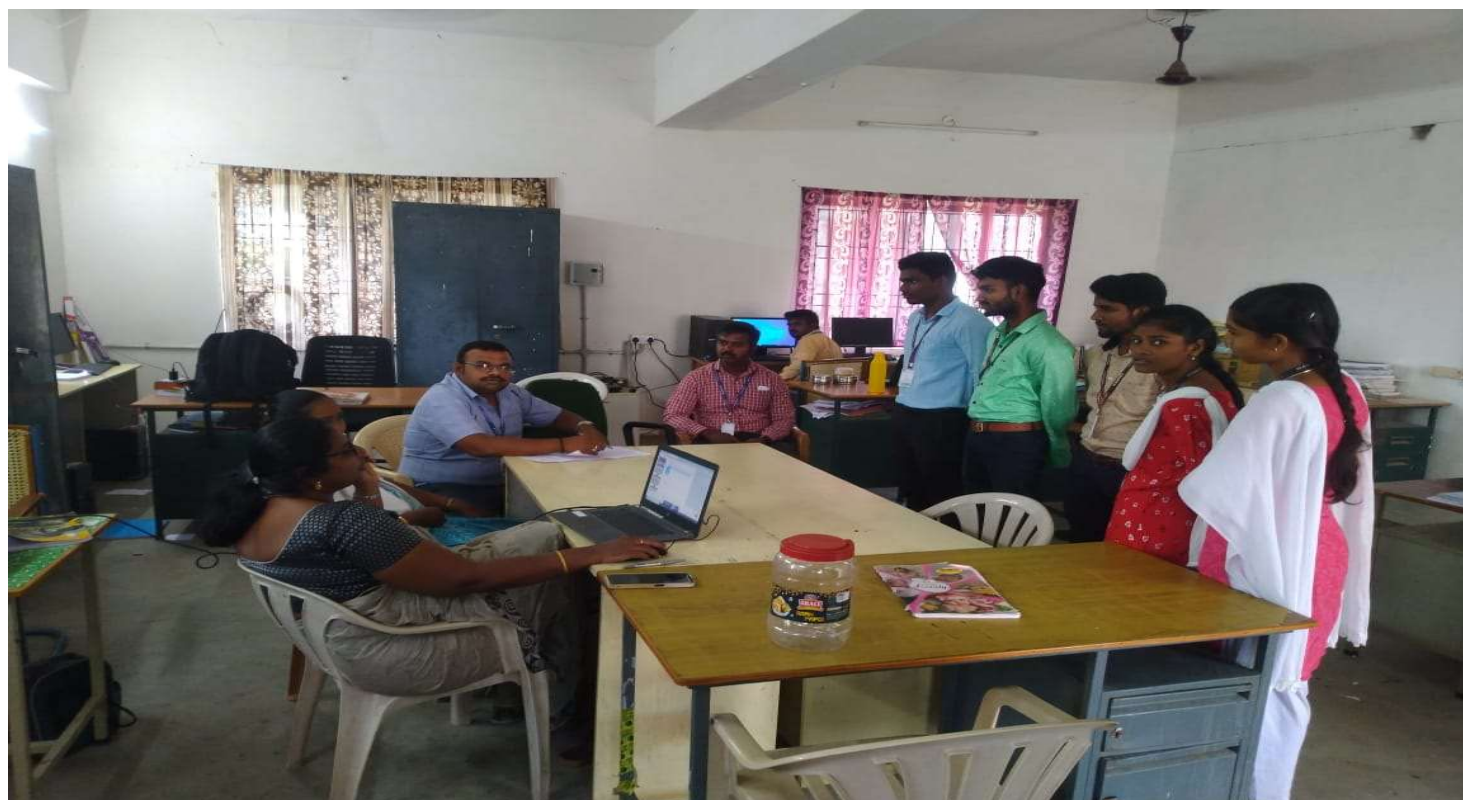
Our Department faculty and students went an industrial visit on 05.11.2022 to Tata Solar Power Plant in Musiri. Students got their doubts cleared from the site engineer on solar power generation process. It was a fruitful journey for both faculty and students.



CLASS COMMITTEE MEETING

Class committee meeting was conducted three times per semester by chair person, subject handling faculties along with students to interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.

- ❖ Class committees meeting with students of all years were conducted on 22.08.2022, 22.09.2022 and 29.10.2022. Students Feedback and their learning experiences and difficulties were discussed.
- ❖ Discussion on Students grievances about the subjects - both theory and practicals were addressed and rectified by the respective chairpersons of each class. Analyzing the performance of the class students after CIA- I & CIA -II and finding the difficulties and means of solving problems for the poor performance of the students in various subjects to conduct coaching classes were arranged for below average students in order to improve their results in the university examination.
- ❖ Students were motivated to participate in various technical events and online certification courses and competitions conducted by other institutions in and around Trichy.



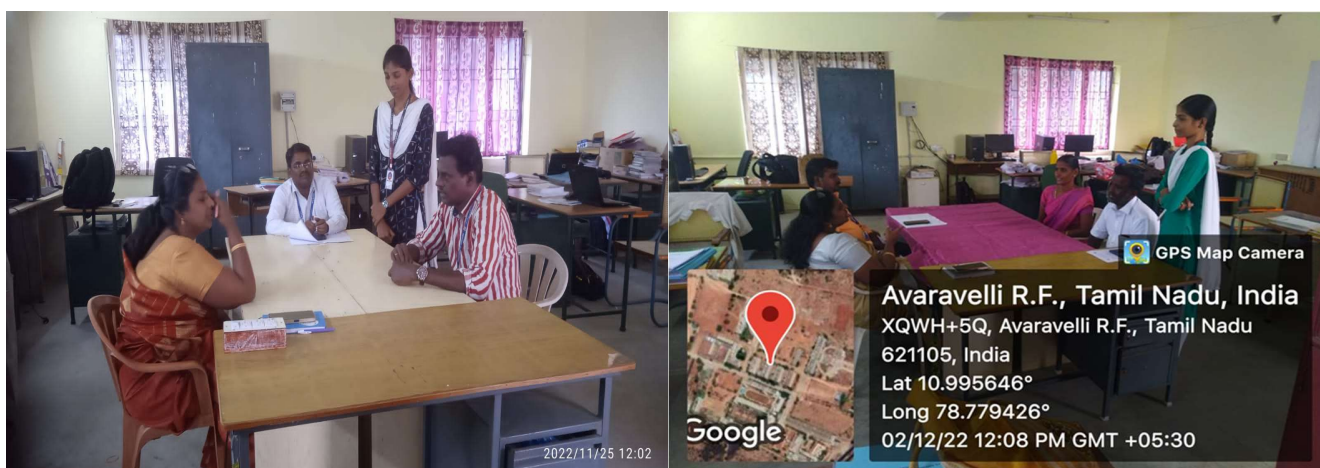
MENTOR-MENTEE MEETING

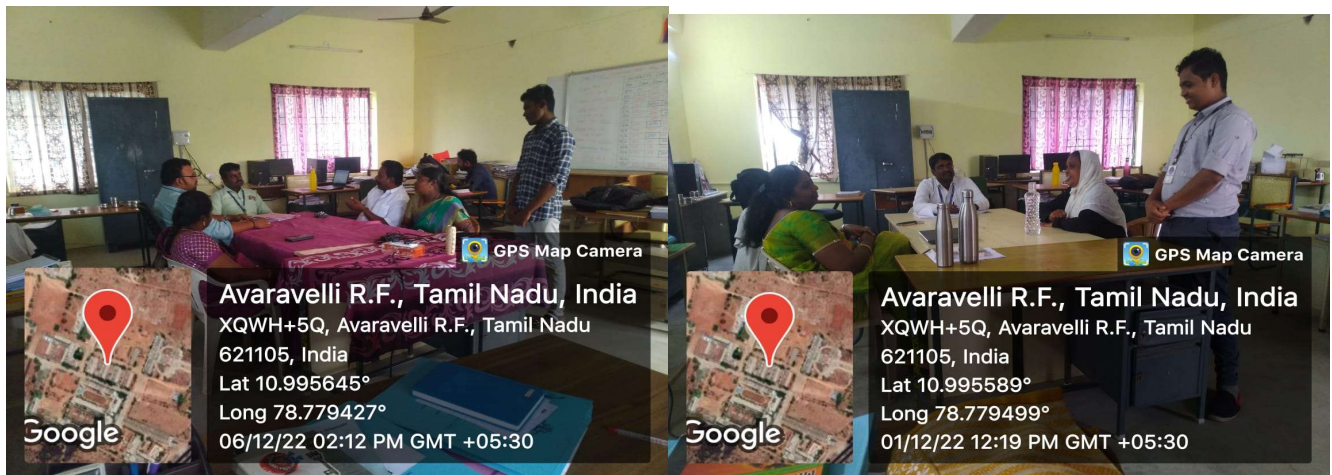
The main motto of this meeting was to accelerate the personal and professional development in academic and non-academic activities. The benefits of this meeting were encouraged and empowered in personal development and helped to identify and correct gaps in generic skills and knowledge. Mentor-Mentee meeting was conducted by individual faculties to allotted mentees.

- ❖ **Mentor – Mentee Meeting 1** was conducted on 6.9.22 for II year, 25.8.22 for III Year, 26.8.22 for IV Year. Students Profile updation, Attendance, Family background & Understandability were discussed.
- ❖ **Mentor – Mentee Meeting 2** was conducted on 19.9.22 for II year, 15.9.22 for III Year, 16.9.22 for IV Year. Students were instructed to study for internal assessment and also insisted to collect the materials. Continuous Internal Assessment-I performance of the students was discussed.
- ❖ **Mentor – Mentee Meeting 3** was conducted on 10.11.22 for II year, 31.10.22 for III Year & IV Year students. Continuous Internal Assessment-II Performance of the students was discussed. Their grievances and inabilities were discussed in the one –one, mentor –mentee session.

PARENTS MEETING

Once in every fifteen days the parents teachers meeting was conducted by our department for all the students. The motto of this meeting was to disseminate their performance in academic and extra co-curricular activities in addition to maintain a good relationship with the students as well as parents.





Editorial Board:

Mr. R.Udayachandran, AP/ENGLISH, MAMCET

Mr.R.Surendar, AP/EEE, MAMCET



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