MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi and Affiliated to Pondicherry University
Accredited by NBA & NAAC 'A' Grade
Kalitheerthalkuppam, Puducherry - 605107

Accredited by
NBA
NATIONAL BOARD OF ACCREDITATION
NAAC

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NEWSLETTER JUNE– JAN-2024

About the Department:

The Department of Electrical and Electronics Engineering (EEE) commenced its journey in 2008 with an initial intake of 60 students at Under Graduate Level. Our college secured an impressive NAAC A grade in the year 2022. This achievement underscores our commitment to academic excellence and quality education.

The department specializes in imparting technical expertise encompassing Electrical Vehicle, Industrial Automation, Electrical Machine analysis software   and their practical applications. Recognizing the nation's vision for advancing the electrical manufacturing industry, we offer diverse training modules to foster the development of industry-ready engineers. Our focus remains on nurturing student competencies through multifaceted activities.

Equipped with cutting-edge facilities, including Electrical Machines labs, microprocessor and microcontroller labs, Power Electronics labs and Electronics devices labs, and Power system simulation labs, our department ensures a conducive learning environment. Regular revisions of course curricula and laboratory setups ensure alignment with the latest technological advancements.

Further enhancing our academic resources, the Department maintains a dedicated library stocked with the latest titles, editions, journals, magazines, and internet connectivity. Organizing seminars, workshops, and guest lecturers is a regular practice aimed at augmenting the technical prowess of our students, preparing them for global competition. Additionally, collaborations through MoUs with esteemed entities like Voltech Energy India Pvt Ltd, Touch Energy Technologies, LED GEO Lights Pvt.Ltd, Axis Global Automation and Space Zee Technologies Private Limited enrich our curriculum with industry-oriented knowledge.

The Department established internal Library with 400 titles and IEEE volumes for the welfare of the Faculty members and students

VISION

To create comprehensive electrical engineers to meet up the growing technological demands of the society.

MISSION

- **Higher Order Thinking:** To impart high quality education to help the students hone their professional skills.
- **Competency:** To improve the competencies of students and faculties on contemporary technologies through continuous improvement programs.
- **Continuous learning:** To undertake research on frontier areas of electrical and electronics engineering.
- **Entrepreneurship:** To imbibe the spirit of innovation and entrepreneurship among the students

Program Educational Objectives (PEOs)

- **Employability:** Graduates will have the ability to demonstrate skills in developing innovative ideas, and in providing effective solutions to complex engineering problems thereby being productive and participative global citizens
- **Higher Education:** Our graduates will have the ability and confidence to pursue higher education or exhibit professionalism in the career or take up entrepreneurial accomplishments.
- **Entrepreneurship:** Our graduates will have the technical competency to involve in multidisciplinary research within the suitable technological, global, societal, ethical, economical, environmental and organizational context.
- **Ethical:** Our graduates will engage themselves in life-long learning thereby keeping themselves abreast of the contemporary issues.

Program outcomes (POs)

POs	DESCRIPTION
PO1	**Engineering knowledge:** An ability to apply the knowledge of mathematics and engineering fundamentals to provide solutions to complex Electrical Engineering problems
PO2	**Problem analysis:** An ability to identify and analyse the problems on electrical engineering, and formulate the solutions appropriate to the problem through structured approach
PO3	**Design/development of solutions:** An ability to design and develop software solutions to the problem with due considerations on socio-economical and environmental sustainability
PO4	**Conduct investigations of complex problems:** An ability to design and conduct experiments, analyse and interpret data to provide valid conclusions and recommendations.
PO5	**Modern tool usage:** An ability to use appropriate techniques and adapt modern electrical engineering simulation tools to solve intricate engineering problems
PO6	**The engineer and society:** Apply logic informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and recognise their responsibility relevant to the profession and explore the human side of engineering.
PO7	**Environment and sustainability:** Understand the role of electrical engineers in society regarding social, cultural, environmental and global responsibilities for sustainable development.
PO8	**Ethics:** Ability to understand and practice the professional, legal and ethical principles involved in the area of electrical engineering-
PO9	**Individual and team work:** An ability to function effectively as a team member or a leader focusing on a common goal in multi disciplinary settings
PO10	**Communication:** An ability to communicate effectively on technical activities both orally and in written form
PO11	**Project management and finance:** An ability to apply the knowledge of engineering and management principles to manage projects in multi disciplinary environments
PO12	**Life-long learning:** An ability to undertake self learning of contemporary issues and engage in lifelong learning

Programme Specific Outcome (PSO)

PSOs	Description
PSO1	**Products Development:** An ability to design, analysis and to implement power electronics converters in renewable energy applications.
PSO2	**Design Thinking:** A capability to design and examine the power system and to solve the unit commitment with various constraints.

VALUE ADDED COURSE

Value Added Course **"Structural analysis for electric vehicle by using FEM Analysis"** for Final Year EEE students from 21.08.2023 to 25.08.2023
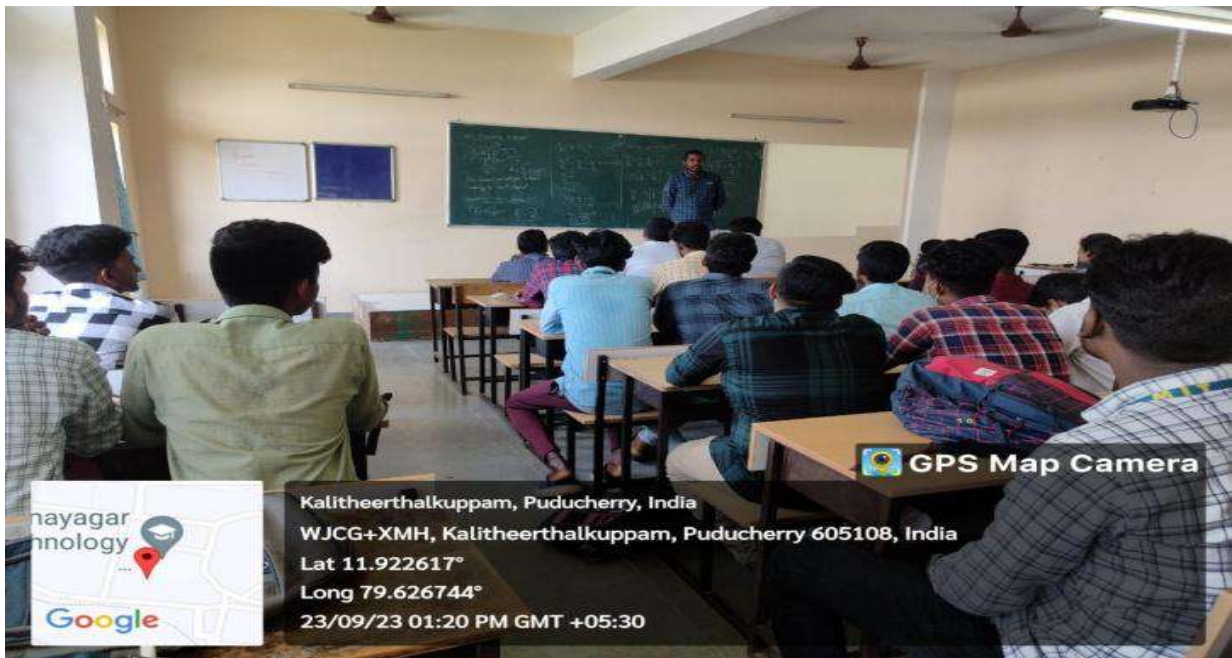
Alumni Interactive session titled **"Guidelines to enter in PSU Sector"** is organized for II, III and IV Year students by Mr. Napoleon (2015 Batch), Manager, Indian Bank (Main Branch), Puducherry on 02.09.2023

Alumni Interactive session titled **"Awareness on Roof Top Solar Power Plant"** is organized for II, III and IV Year students by Mr. Abilash.M (2020 Batch), Manager, Software Engineer, TCS on 20.09.2023

Alumni Contribution **"Exploring Careers in Interdisciplinary sectors of Engineering - A route map"** by Mr. Selvendhan.T (2021 Passed out) for Final, Third and Third year EEE on 23.09.2023

INDUSTRIAL VISITS

An industrial visit is organized for II and III year EEE students undergone industrial visit **to "Sri Ramakrishna Transformers,Morattanti"** on 30.09.2023

INPLANT TRAINING

An Inplant Training is arranged for III year EEE students **to " Touch Energy Technologies "** Chinna Veerampattinam Rd, Ariyankuppam, Puducherry 605007

GUEST LECTURES

An Guest Lectures is arranged for III year EEE students by **" Mr.V.Sabarinathan, Faculty & Centre Head, TUV Rheinland India Pvt. Limited, Bangalore"** on 06.10.23.

An Guest Lectures is arranged for III year EEE students by **" Mr. P.Sreenivasan, Sunzter Innovations, Puducherry"** on 06.10.23.

SPECIAL LECTURE

Mr.D.Muruganandhan,AP/EEE has delivered special lecture titled **"Introduction to solar PV system"** on 16.09.2023 for IV year EEE students.

Dr.K.Sedhuraman,ASP/EEE has delivered special lecture **"AI Techniques Application to Power Electronics"** on 26.09.2023 for III year EEE Students.
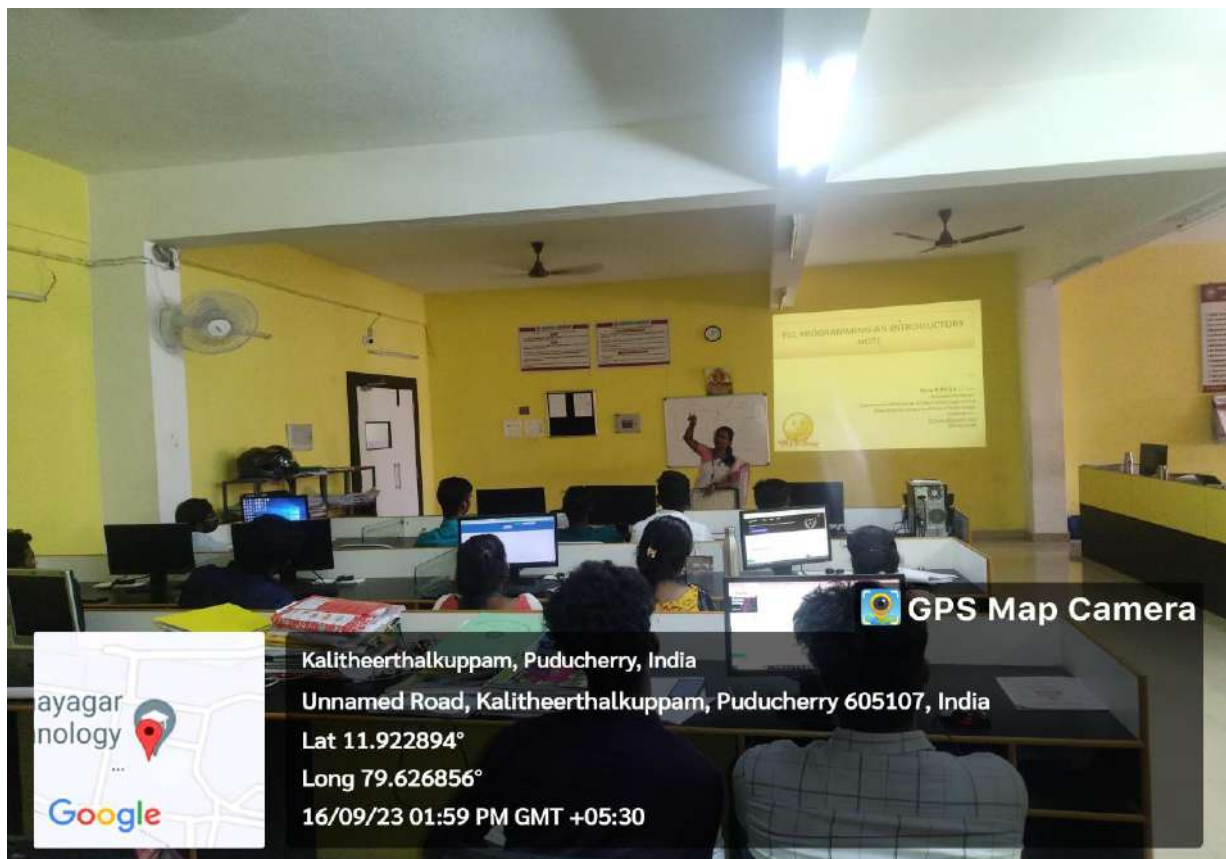

Mr. D.Balaji AP/ EEE have delivered special – **"Role of Measuring Instruments in Transmission Line System "**on 25.09.2023 for III year EEE Students.

INTERNAL WORKSHOPS

Mr.D.Balaji,AP/EEE has conducted internal workshop titled **"Electrical CAD"** on 16.09.2023

Mrs.R.Priya,AP/EEE has conducted internal workshop **titled "PLC Programming – An Introductory Note"** on 16.09.2023

Mr.S.Rajkumar AP/EEE has conducted internal workshop titled **"Matlab Simulink – Base Tool for Electrical"** on 21.09.2023

ACCOLODES WON

Mrs.Priya.R,AP/EEE presented paper titled **"Nano Grid Systems for Rural Electrification"** in IE(I) seminar titled **"Advances in Nano technology for sustainable Development"** and received third Prize with certificate

Madhan,II/EEE has participated in the "**Group Dance competition"** held at IGMC, Puducherry on 16.09.2023

Chitra .S,III/EEE has participated and Presented paper titled **"IOT Based Climate change prediction using Electrical measures"** in the All India National Seminar hosted by   IE(I) Puducherry state center and MVIT.

Chitra.S, III/EEE participated technical symposium in Christ College of Engineering and Technology at 10/03/2023

Sabaraish.M, Jeevanandhan.D and Abinaya.A of III/EEE Won First prize with cash award 15,000/ **"Ideaton & Hackathon 1.0 Competition"** at SRM Institute of Science & Technology, Chennai (LIFE JACKET) on 13.10.23.

Balaji.S, Karthick .S and Krishnaa .G of III/EEE Project Competition at Sai Ram- First Prize with Cash 2000/- for the title "Glucose Bottle Level Monitor" on 09.11.23.

Our third year EEE students have participated in **"CII Innovation Contest 2023"** in final – 2 batch shortlisted and presented on 22-11-2023.

S.Devaraj of Final year EEE students has winner of **"All India Inter University Yogasana Championship -2022"** on Sep 2023.

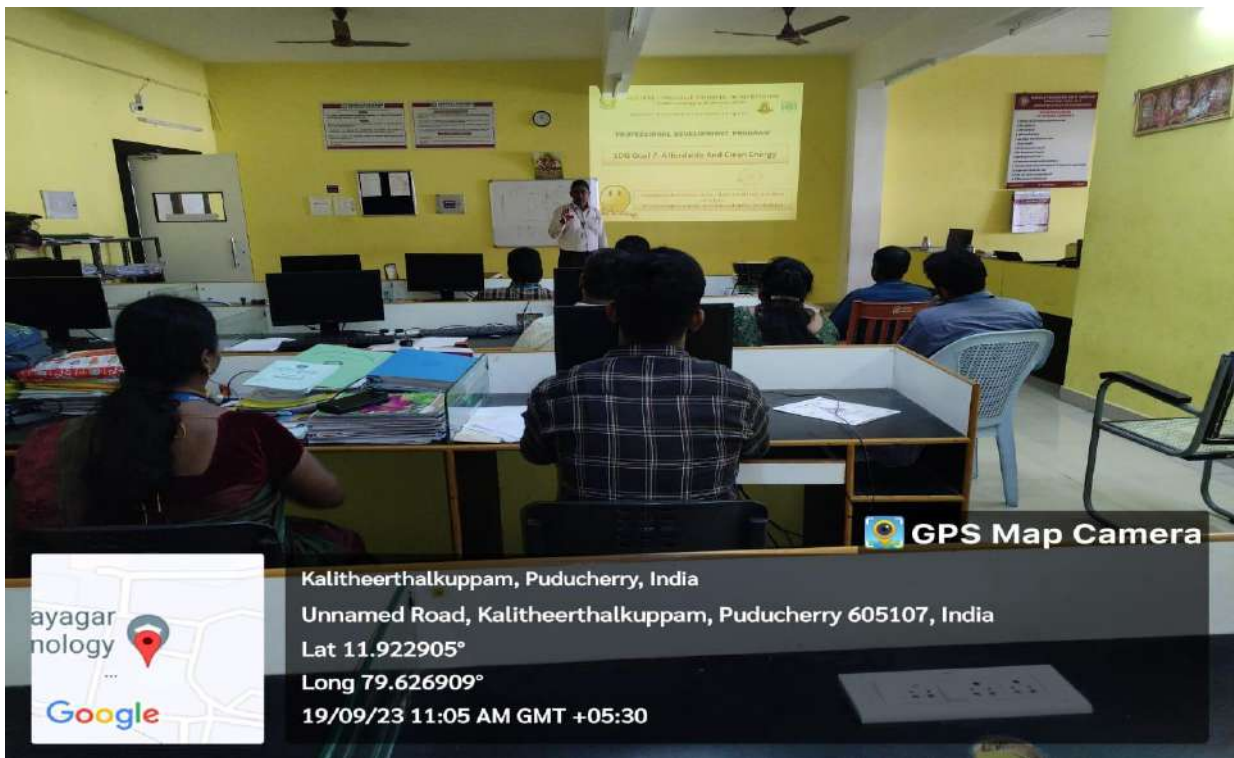**ALUMNI (CAREER GUIDANCE AWARENESS PROGRAMME)**

CGC Program for II Year EEE Students in the title **"Career Guidance for Electrical Engineering Students"** by Mr. T. Arivumathi, Quality Engineer at Hidesig, Puducherry, India, on 11.10.2023.

CGC Program for III and IV Year EEE Students in the title **"Study Across Cultures: Embracing Diversity in Education"** Mr. Sravan C V, (Alumni)) on 14.10.2023

QUALITY IMPROVEMENT PROGRAMME

Professional Development Program was conducted for the EEE faculty members titled **"SDG Goal 7 - Affordable and Clean Energy"** from 19.09.2023 to 23.09.2023

SDG GOALS PROGRAMME

Awareness Rally in Manadipet Village with the theme of "**SDG 5 in Action - Bridge the Gender Gap**" by students and Faculty Members