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**Inside this issue:**

*Students Achievements*

*Staff Publications*

*Department Activities*

*In plant Training*

*Industrials Visits*

*Student Toppers*

*Placements Details*



**PANIMALAR**  
**ENGINEERING COLLEGE**

**An Autonomous Institution**  
Affiliated to Anna University, Chennai  
(JAISAKTHI EDUCATIONAL TRUST)

**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

**VISION OF THE DEPARTMENT**

**To be a Centre of excellence in Electrical and Electronics Engineering education, fostering innovation and technical expertise to meet the evolving needs of society with credibility, integrity, and ethical values**

**MISSION OF THE DEPARTMENT**

**M1:** To achieve excellence in curricular and co-curricular activities by providing quality education through dedicated faculty and effective teaching methods.

**M2:** To equip students with technical competence and practical skills through research-driven learning and industry-focused training.

**M3:** To nurture dedicated Electrical and Electronics Engineers who take pride in serving their profession and society with responsibility and integrity.



**FROM PRINCIPAL's DESK**



I am delighted to know that our EEE department newsletter carrying the campus news and the achievements of our staff and students, who earn credits for the institutions, is being released. On this gracious occasion I wish all the best to those who are responsible for bringing out this letter. On reading this text, it would definitely be an inspiration and motivation for the other students and staff to perform better and add on their contributions in the forthcoming issues. Congratulations to all the contributors.

**Dr. K. MANI M.E., Ph.D.**  
Principal, PEC

**FROM HOD's DESK**



The Department of Electrical and electronics engineering was formed with the primary objective of providing world class education in the field of electrical engineering, while addressing the problems of today and tomorrow. Right from its inception, the department has been offering excellent infrastructural facilities with a variety of computing platforms to aspiring professional students to meet the burgeoning demands of the industry. The strength of the department lies in the highly motivated students who understand the dynamics of the industry and hone their skills accordingly.

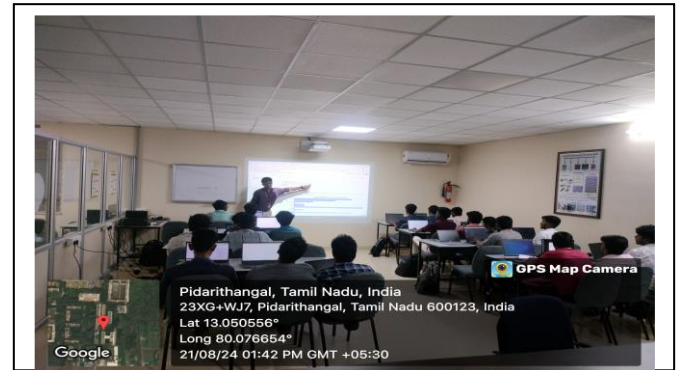
**Dr. S. SELVI M.E., Ph.D.**  
Professor and Head

**STAFF ACHIEVEMENTS**

- Dr. MANOJ KUMAR N, Received "Certificate of Excellence in Peer-reviewing" award from B P International in the year 2024.
- Dr.D. SILAS STEPHEN, Received "Best Faculty Advisor" Award from The Institution of Engineers in the year 2024.

### DEPARTMENT ACTIVITIES

The Green Energy Club, Department of EEE organized a Workshop on “Aurdino based Machine Learning” for III Year Students August 2024. The gathering was welcomed by **Dr. S, Selvi, Professor /EEE**. The speakers of the event to create awareness about Aurdino based Machine Learning among them.



The Green Energy Club, Department of EEE organized a Workshop on “CO2 Laser Engraving Design ” for II Year Students July 2024. The gathering was welcomed by **Dr. S, Selvi, Professor /EEE**. The speakers of the event to create awareness about CO2 Laser Engraving Design among them.



- The Green Energy Club, Department of EEE organized a Awareness program on “SDG’s 7,9 and 11” on 18.09.2024. The gathering was welcomed by **Dr. S, Selvi, Professor & Head /EEE**. Dr. Ragavan, Assistant Professor, IIT, Gandhinagar were the speakers of the event to create awareness about Motors for Electric Vehicles among 286 students. During his talk, Dr. Ragavan also briefed about the process and given solution.
- Department of EEE organized a Guest lecture on “Guest Lecturer on Smart Technologies “on 11.08. 2024. The gathering was welcomed by **Dr. S, Selvi, Professor & Head /EEE**. Mrs. Niranjana Kamatchi, Trainee **IES**, the speakers of the event to create awareness about Motors for Electric Vehicles among 224 students. During his talk, Mrs. Niranjana Kamatchi also briefed about the process and given solution.

### STAFF PUBLICATIONS

- DR..DHARMAPRAKASH. R, “An Integrated Economic and Emissions Dispatch Problem using the Sparrow Search Algorithm”, SSRG International Journal of Electrical and Electronics Engineering & Seventh Sense Research Group 2024.
- Dr. LAVANYA DHANESH, “Stability and Reliability Analysis for Multiple WT Using Deep Reinforcement Learning” Electric Power Components and Systems & Taylor and Francis 2024.
- Dr. LAVANYA DHANESH,” Design of Covid19 Disease Detection for Risk Identification using Deep Learning Approach”, Journal Of Advanced Research in Applied sciences and Engineering Technology (JARASET) & Semarak Ilmu Publishing 2024.
- V.DEVARAJ, “Digital Hash Data Encryption for IoT Financial Transactions using Blockchain Security in the Cloud, International Journal on Recent and Innovation Trends in Computing and Communication”, & Auricle Global Society of Education and Research 2024.
- K.P DIANKARAN, “Experimental investigation on micro hardness, surface roughness, and white layer thickness of dry EDM”, Engineering Research Express & IOP Science 2024.
- R. SAKTHIVEL, “Exploring The Environmental Benefits of Utilizing Dibenzo-tetra-benzoporphyrin and Metal Nanoparticles In Organic Solar Cells”, Oxidation Communications & Scientific Bulgarian Communication 2024.

### STUDENT PUBLICATIONS

- D.JUSTIN PRABHAKARAN, P. KISHORE, M.V. DHIVAANKAR, MERLIN SUBA, S. GOKUL, “Generation of Electricity Using Waste Material”, PECTEAM 2k24 Iconic Proceedings
- S. PUSHPA, BAVA SHREE, NIVEDHA.B. A NIVEDHA.P, MANJULA.M, “Reviewing Load Frequency Control (Lfc) Strategies In Hybrid Power Systems With Renewable Energy Sources”, PECTEAM 2k24 Iconic Proceedings
- HARIRAMAKRISHNAN P YASHINI YAZMOZHI P NITHIYA PRIYA S ANGELIN VERONICA J JANANI R, “maximizing solar energy harvesting efficiency with zeta converter technology”, PECTEAM 2k24 Iconic Proceedings
- AKASH V, HARIPRASATH S, HILTON R, SILAS STEPHEN D, “a synopsis of electric vehicle in India”, PECTEAM 2k24 Iconic Proceedings
- DEVARAJ V, DHARSHINI.J. I, JANANI.M, SHALINI.M D, “MINI KASHAYAM VENDING MACHINE”, PECTEAM 2k24 Iconic Proceedings
- SUNMATHI.P, MAHALAKSHMI.T, ROSHINI.S, RUBASREE.B, KALAIMANI.A, “IoT Based Digital Waste Management Robot for Garbage Cleaning”, PECTEAM 2k24 Iconic Proceedings
- N HARIHARAN, KISHORE KUMAR P, A GOKUL RAAM, G MERLIN SUBA, P KAMAL, “Photovoltaic Based Brushless Dc Motor Using Cuckoo Search Algorithm as A Maximum Power Point TRACKING”, PECTEAM 2k24 Iconic Proceedings

**INDUSTRIAL VISIT**

- Students from **3rd semester EEE** along with two faculties of our department were **visited**, **“Schwing Stetter” Chennai** on 03.08.24. The technical staff members taken the students to field and explained the operation of power transformer, circuit breaker, relays and lightning arrester. This visit is very much useful for the students.
- Students from **3rd semester EEE** along with two faculties of our department were **visited**, **“DYNAMIC PRODUCTS INDIA PVT. LTD.,” Chennai** on 03.08.24. The technical staff members taken the students to field and explained the operation of spares part of the Automobile. This visit is very much useful for the students
- Students from **3rd semester EEE** along with two faculties of our department were **visited**, **“UNO MINDA,” Chennai** on 27. 07.24. The technical staff members taken the students to field and explained the operation of power transformer, circuit breaker, relays and lightning arrester. This visit is very much useful for the students
- Students from **5th semester EEE** along with two faculties of our department were **visited**, **“North Chennai Thermal Power Station (NCTPS – I), Athipattu, Chennai. on 03.08.24.** The technical staff members taken the students to field and explained the operation of power generation and distribution. This visit is very much useful for the students

