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**PANIMALAR  
ENGINEERING COLLEGE**

An Autonomous Institution

Affiliated to Anna University, Chennai  
(JAI SAKTHI 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. S. Selvi and Dr. S. Deepa from the Department of EEE, Panimalar Engineering College, guided students—Surya K. S., Sujjish A., Srinivasan P., and Sridhar K.—in executing a project titled “Smart E-Bicycle with Sustainable Energy Recovery System.” The project was carried out under the Student Project Scheme of the Tamil Nadu State Council for Science and Technology.
- Dr. S. Selvi and Dr. S. Deepa from the Department of EEE, Panimalar Engineering College, guided our student X.Nishanth Rajkumar, Karthick Vinod, A.K.Nithish kumar, S.N.Karthi Krishna—in executing a project titled “Generation of Electricity using flue gas from thermal power plant by stirling engine.” The project was carried out under the Student Project Scheme of the Tamil Nadu State Council for Science and Technology

### DEPARTMENT ACTIVITIES

- Department of EEE organized a Workshop on “Printed Circuit Board Design ”for III Year Students September 2024. The gathering was welcomed by **Dr. S, Selvi, Professor /EEE** Dr. A. Sureshkumar, Manager, TVS Training & Services, Chennai were the speakers of the event to create awareness about Printed Circuit Board Design among them. During his talk, Dr. A. Sureshkumar also briefed about the process and given solution



- Department of EEE organized a Workshop on “ Integrating Sensors with Artificial Intelligence (AI) and Machine Learning (ML) Technologies ”for II Year Students JANUARY 2025. The gathering was welcomed by **Dr. S, Selvi, Professor /EEE**



**Hands-on Workshop on Integrating Sensors with Artificial Intelligence (AI) and Machine Learning (ML) Technologies (23.01.2025 to 30.01.2025)**

- Department of EEE organized a Workshop on “Elevate Your Hackathon Strategy with Advanced Prompt Engineering Techniques ”for II Year Students MARCH 2025. The gathering was welcomed by **Dr. S, Selvi, Professor /EEE**

INDUSTRIAL VISIT

- ▶ Students from **8TH semester EEE** along with two faculties of our department were **visited**, SCHWING Stetter India, **Chennai** on 14.12.24. 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 **4TH semester EEE** along with two faculties of our department were **visited**, TVS Training & Services Ltd., **Chennai** on 21.12.24. 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 **6th semester EEE** along with two faculties of our department were **visited**, SCHNEIDER ELECTRIC INDIA PVT. LTD, **Chennai**. On 11.01.25. 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



**STUDENT ACHIEVEMENTS**



**Smart India Hackathon 2024**  
**II Year EEE students T.Pingala Devi**



**III Year students Naveen Kanna V (EEE) Arun Karthik (EEE) Harihar K (EEE) Oviyan T (EEE) participated in EDII Hackathon 2024 and won a Rs.1 Lak cash prize conducted by Tamil Nadu Govt., India.**



**III Year EEE students, Steve Anand S, Samuel Joel Prasad, Praveen Kumar and Sharmistha V for winning the prestigious Bharatiya Antariksh Hackathon 2024, organized by the Indian Space Research Organisation (ISRO)**

#### PLACEMENT DETAILS

S.NO	COMPANY NAME	NO. OF STUDENTS PLACED
1	HEXAWARE TECHNOLOGIES, ACCENTURE	4
2	3PR POWER ENGINEERS	3
3	CTS - GENC	3
4	VOLTECH ENGINEERS	3
5	HCLTECH	2
6	Renault Nissan Automotive	1
7	TECH MAHINDRA	2
8	NISSI Engineering Solution	3
9	ACCENTURE	7
10	JSW	2
11	PKR Equipment's Pvt Ltd	2
12	OHMS Tech Engineers, Ohms Energy	7
13	Foxconn Hon Hai Technology	4
14	Blue Star Ltd	1
15	INFOSYS	1

#### STAFF PUBLICATIONS

- Dr. S.SELVI, Published Scopus Indexed Journal in SSRG International Journal of Electrical and Electronics & Seventh Sense Research Group Engineering, titled on Enhancing Short-Term PV Power Forecasting Using Deep Learning Models: A Comparative Study of DNN and CNN Approaches, 2025
- Dr. D Silas Stephen, Published Scopus Indexed Journal in Journal of Environmental Protection and Ecology & SciBul.Com titled on Dynamic Opportunistic Networking For Crowd sourced Waste Management And Pollution Control, 2025
- Dr. R.DHARMA PRAKASH, Earth Science Informatics & Springer titled on Integrating machine learning techniques for Air Quality Index forecasting and insights from pollutant-meteorological dynamics in sustainable urban environments, 2025
- Dr. B. Muthuraj, Published Scopus Indexed Journal in Journal of Sustainability Research & Hapres titled on Seasonal Performance Analysis and Comparative Evaluation of Wind Power Prediction Models Using Machine Learning Techniques

- Dr. P.S.RAMAPRABA ,Published Scopus Indexed Journal in International Journal of Electrical and Computer Engineering (IJECE)& Institute of Advanced Engineering and Science (IAES) titled on Implementing Cloud Computing in Drug Discovery and Telemedicine for Quantitative Structure-Activity Relationship Analysis,2025
- Dr. P.S.RAMAPRABA, Published Scopus Indexed Journal in Nanotechnology Perceptions & Brookfield Academic Limited. titled on Performance Analysis of Malicious and Residual Node Detection in Manet Using Deep Learning Techniques,2025
- Dr.S.Deepa, Published Scopus Indexed Journal in International Journal of Power Electronics and Drive Systems (IJPEDS)& Institute of Advanced Engineering and Science titled on Comparative analysis of wind speed prediction: enhancing accuracy using PCA and linear regression vs. GPR, SVR, and RNN.2025
- Dr.S.Deepa, Published Scopus Indexed Journal in Indonesian Journal of Electrical Engineering and Computer Science& Institute of Advanced Engineering and Science (IAES) titled on Enhanced Vegetation Encroachment Detection Along Power Transmission Corridor Using Random Forest Algorithm 2025
- Dr. N. MANOJ KUMAR, Published SCI Journal in Journal of Energy Storage & Elsevier titled on Enhanced regulation and optimization techniques for isolated fourth-order LC resonant converters in solar pv to battery pack conversions,2025
- Dr. N. MANOJ KUMAR, Published Algorithms & MDPI titled on Innovative Control techniques for Enhancing Signal Quality in Power Applications: Mitigating Electromagnetic Interference,2025
- Mrs.Lakshmi S, Published Scopus Indexed Journal in Heliyon & Elsevier, titled on Optimizing thermal power plant efficiency through washout filter based proportional integral derivative controller ,2025
- **Mr.Ponkumar G, Published Scopus Indexed Journal in Oxidation Communication & Scibelcom Ltd titled on Real-time monitoring and optimization system for advanced oxidation processes using smart Sensors and data analytics, 2025**
- **Mrs.Shobana D, Published Scopus Indexed Journal in Tuijin Jishu/Journal of Propulsion Technology& Journal of Propulsion technology titled on Insights into electromagnetic Interference in Non-Isolated Dc to DC Converters A Contemporary Analysis, 2025**
- Mr. Karthikeyan, Published Scopus Indexed Journal in Electrical Engineering & Springer Nature titled on Enhancing electric vehicle charging stations in DC micro grid using KOA-DRN approach,2025
- Mrs.S.Pushpa, Published Scopus Indexed Journal in International Journal of Power Electronics and Drive Systems (IJPEDS) & IAES titled on Enhancing Power Quality in solar-wind grid- connected systems through soft computing techniques,2025.