

# GRID

2023 – 24

EEE NEWS LETTER

MARCH 2024

Volume: 20

Issue: 2

## Newsletter Committee

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## Upcoming Event

- 1.Guest Lecture on “Resent Trends in Renewable Energy”.
- 2.Workshop on “PLC SCADA”.
- 3.Seminar on “Robotics”.

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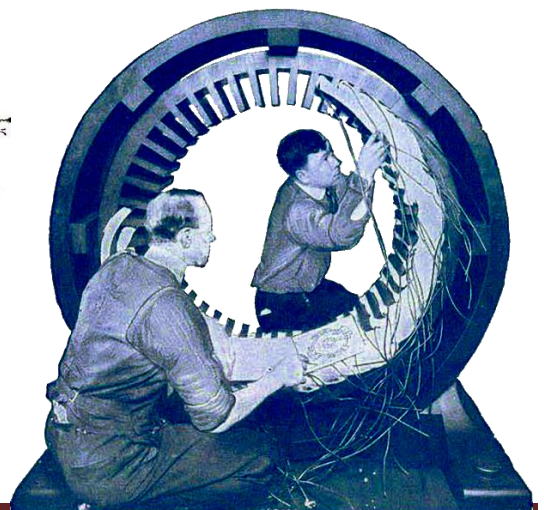
## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### VISION OF THE DEPARTMENT

“To provide excellence in technical education of electrical and electronics engineering and produce globally competent engineers for the revolution of industry.”

### MISSION OF THE DEPARTMENT

- To Provide good infrastructure and serene environment to our students and faculty members to meet the requirement of electrical and electronics engineering.
- To prepare the students through contextual technical education for their career enrichment.
- To impart knowledge on core engineering fields through projects, workshops and industry interaction.
- To prepare graduates with ethical, social and environmental awareness to demonstrate professionalism in .....



**PANIMALAR  
ENGINEERING COLLEGE**

An Autonomous Institution

Affiliated to Anna University, Chennai  
(JAISAKTHI EDUCATIONAL TRUST)

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### 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



IV Year students Prashanth B(EEE) Kamalesh P (EEE) Naveen B (EEE) Heshishram S(EEE) Anisha G (EEE) Arjun M P (CSE) won a cash prize of Rs. 1,00,000 Smart India Hackathon 2023 held at Lovely Professional University, Punjab, India

### STUDENT ACHIEVEMENTS

- IV Year students Prashanth B (EEE) Kamalesh P (EEE) Naveen B (EEE) Heshishram S(EEE) Anisha G (EEE) Arjun M P (CSE) won a cash prize of Rs. 1,00,000 Smart India Hackathon 2023 held at Lovely Professional University, Punjab, India.

### 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.

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### DEPARTMENT ACTIVITIES

Department of EEE organized a Workshop on "Printed Circuit Board Design" for IV Year Students September 2023. 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



Workshop on "Printed Circuit Board Design" Batch - 2 (01/09/2023 to 04/09/2023) TVS Training & Services, Chennai

Department of EEE organized a Workshop on "Printed Circuit Board Design" for IV Year Students September 2023. 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



Interview Training Programme (11/09/2023 to 18/09/2023) TVS Training & Services, Chennai

- Department of EEE organized a Guest Lecture on "Motors for Electric Vehicles" on 20.03.2024. 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 150 students. During his talk, Dr. Ragavan also briefed about the process and given solution.
- Department of EEE organized a Seminar on "How to crack GATE" on 31.01.2024. The gathering was welcomed by **Dr. S,Selvi, Professor &Head /EEE.** Mrs. Niranjana Kamatchi, Trainer **IES GATE, Academy, Chennai**, 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.

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### 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 Dibenzotetrabenzoporphyrin 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

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Students from **5th semester EEE** along with two faculty of our department were **visited**, **“Schwing Stetter” Chennai** on September, 2023. 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 **3<sup>rd</sup> semester EEE** along with two faculty of our department were **visited**, **“Ford India” Chennai** on October, 2023. 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 **3<sup>rd</sup> semester EEE** along with two faculty of our department were **visited**, **“TVS” Chennai** on October, 2023. 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.

