



Courses Offered
B.E.
Electrical and Electronics Engineering
& Ph.D.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Vision

Transforming the individuals into globally competent electrical engineers to fulfill the technological needs of the society.

Mission

- Establishing world class infrastructure in Electrical Engineering.
- Enhancing the knowledge of the faculty in cutting edge technologies through continuous improvement programmes.
- Providing well balanced curriculum in graduate, postgraduate and doctoral programmes.
- Adopting innovative content delivery, assessment and continuous improvement methods to achieve desired outcomes.
- Facilitating industry institution interaction in teaching & learning, consultancy and research activities to accomplish the technological needs of the society.
- Encouraging the faculty and students to carry out innovative research work.
- Practicing ethical standards by the faculty and students.
- Motivating the students for active participation in co-curricular and extracurricular activities.

Department Overview

The EEE Department at Thiagarajar College of Engineering, Madurai, established in 1957, is a pioneer in engineering education. It emphasizes academic excellence, practical exposure, and Outcome-Based Education to meet global standards. With strong industry ties and research focus, it nurtures skilled professionals and scholars. The department consistently produces graduates who excel in academia, research, and industry.

Highlights

Department Achievements:

- Department established in the year 1957.
- Recipient of AICTE-CII best Industry Linked Institute Award – 2014
- DST - FIST supported Department.
- Accredited and Re-accredited for UG and PG programme(s).
- Implemented Outcome Based Education for delivering UG & PG programmes from 2014-15 Academic year.
- Signed MoU with TVS for TCE-TVSM CEP (Collaborated Education Program).
- Collaboration with industries and research organizations such as TVS Motors Limited, General Electric, Honeywell, CPRI, CDAC for curriculum improvement.

Program Highlights:

The B.E. Electrical and Electronics Engineering program at Thiagarajar College of Engineering (TCE) equips students with a strong foundation in electrical systems, electronics, and modern engineering practices. The course focuses on key areas such as power systems, electrical machines, control systems, electronics, embedded systems, renewable energy, and smart grid technologies. With an emphasis on practical and project-based learning, the curriculum integrates design thinking and system thinking methodologies. Students engage in engineering design projects, capstone projects, and seminars to develop problem-solving skills and industry readiness.

MoU's Signed



PINNACLE
LITHIUM POWER

Total Faculty strength

25

Faculty members with Ph.D.

23

Professors

13

Associate Professors

6

Assistant Professors

6

Centre for Excellence



Laboratories in TSS-CAR

- Automotive Discovery Centre
- Product Engineering Lab
- Product Build Lab
- Product Reliability Testing Lab
- Electric Vehicle Lab

Laboratory Infrastructures

- Embedded systems
- Electric vehicles
- Machines
- Automation
- Applied Electronics
- Power electronics
- Computer laboratory
- Project laboratory
- Control System



Modelling and Simulation lab



Automation lab



Sensors lab

Total Research Grants amount

7+ Crores

Total Publications - 801

Patents - 33

Grants - 37

Citations - 29625

hi - index - 75

I10-index - 518

Student Achievements

Secured Distinguished level in Quality case study presentation held by Quality Circle Forum of India, Chennai.



StartUpTN SDG Hackathon Hosted by TCE-TBI, 2023.

Secured first prize of Rs 50,000/- in National Smart India Hackathon, 2022.



Our Top Recruiters



Notable Alumni



Dr. A. Sivathanu pillai
EEE-1969
Scientist/ Engineer, ISRO



Dr. S. Sivasubramani
ME - 2005
Associate Professor
Dept. of EEE,IIT Patna



Dr. Selvakumar Ramachandran
EEE - 2001
Director, Kerckhoffs Ltd, UK



Mrs. R. M. Kabila
EEE - 2015
Public and Motivational
Speaker

Professional Society



IEI - The Institution of Engineers



IEEE - Institute of Electrical and Electronics Engineers

Technical Expertise of Students

- **Internet of Things (IoT):** Students have developed smart systems integrating IoT for real-time monitoring and automation in various applications.
- **AI and Image Processing:** They have implemented AI-driven image recognition and analysis solutions for medical, robotics, and industrial applications.
- **Embedded Systems:** Hands-on experience in designing and programming microcontroller-based solutions for automation and control.
- **Switchgear and Power System Protection:** Practical knowledge of switchgear operations and protection schemes through simulations and developing protective devices.
- **Control and Automation:** Developed PID, PLC and microcontroller based automation projects for industrial and home automation applications.
- **Electric Vehicles:** Engaged in research and development of battery management systems and motor control strategies for EVs.
- **Machines and Transformers:** Conducted experiments on machine efficiency, transformer protection, and performance optimization.
- **Programming and DBMS:** Proficient in developing software solutions and managing databases for efficient data handling and retrieval.

Contact

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