



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

(APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO PONDICHERRY UNIVERSITY)
(ACCREDITED BY NBA-AICTE, NEW DELHI, ACCREDITED BY NAAC WITH "A" GRADE)
MADAGADIPET, PUDUCHERRY – 605 107



DEPARTMENT OF
ELECTRICAL AND ELECTRONICS
ENGINEERING



NEWSLETTER "ELECTIC"

ODD SEMESTER



June 2025 – November 2025



Volume-11 | Issue-24



"Empowering Minds, Electrifying Futures"



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MESSAGE SECTION



With regards

Dr. V.S.K. Venkatachalapathy

Director cum Principal

MESSAGE FROM DIRECTOR CUM PRINCIPAL

Sri Manakula Vinayagar Engineering College is located in a peaceful environment, away from the hustle and bustle of the city. This allows students to focus on their studies without distractions. The administration is committed to maintaining peace and order in the campus, and they take every necessary measure to ensure the safety of the students. The College is having teams of dedicated faculty members in each department who are fully qualified. The college has a dynamic administration that works hard to produce quality engineers who are well-suited for the digital world. They offer value-added courses in each department to help students get the skills they need to succeed in the job market. The college also focuses on developing students into good citizens

by teaching them discipline and other important values. The institution is accredited by NAAC with 'A' Grade in the year 2013. Ours is first engineering institution in the Union Territory of Puducherry which has got the NBA accreditation. Right from the first batch, the students of this institution have bagged the gold medals and top ranks of the Pondicherry

University. Each department is having state of Art equipments and fully furnished labs. Well equipped Library is also available. Separate hostel facilities are available for boys and girls with gym. I welcome all the students to utilize these facilities available at this institution for their academic growth.



MESSAGE FROM

HOD



With regards

Dr. P. Jamuna, B.Tech, M.E, Ph.D.

Professor and Head,
Department of Electrical and
Electronics Engineering

The Electrical and Electronics Engineering department, which began in 1999 with an intake of 40 students, has developed significantly and now houses 120 students. Recognized as a research centre in 2021-2022, the department strongly emphasizes research and industry engagement with various reputed organizations. We are delighted to have you explore our vibrant academic community. We are committed to nurturing future-ready engineers through a rigorous curriculum, hands-on learning, and a strong emphasis on research and industry collaboration. The department has been accredited by the NBA since 2008 and continuously updates its curriculum to incorporate advancements in renewable energy, electric vehicles, and artificial intelligence. At SMVEC, we take pride in being recognized among the

top EEE engineering colleges in Puducherry, offering students a transformative educational experience. We gladly invite you too be a part of our journey toward shaping the next generation of technologists and learners and leaders.



INNOVATE
for Tomorrow



ENGINEER
with Excellence



ELECTRIFY
with Passion



EMPOWER
Together

"EMPOWERING MINDS, ELECTRIFYING FUTURES"



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)



INSTITUTE VISION



To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

INSTITUTE MISSION



M1: Quality Education: To provide comprehensive academic system that amalgamates the cutting-edge technologies with best practices.



M2: Research and Innovation: To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.



M3: Employability and Entrepreneurship: To inculcate the employability and entrepreneurial skills through value and skill-based training.



M4: Ethical Values: To instil deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



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DEPARTMENT HIGHLIGHTS

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ODD SEMESTER

2025-2026



DEPARTMENT VISION

To promote proficiency in the field of Electrical and Electronics Engineering by creating a stimulating environment for research, innovation and entrepreneurship



DEPARTMENT MISSION



M1: Quality Education: To impart high quality technical education with problem solving capabilities by innovative pedagogy in emerging technologies.



M2: Industrial and Societal Needs: To cater the dynamic needs of the industry and society by strengthening industry-institute interaction.



M3: Research and Innovation: To nurture the spirit of research attitude by carrying out innovative technologies pragmatically.



M4: Placement and Entrepreneurship: To inculcate the professionalism in career by advancing synergetic skills to compete in the corporate world.



PROGRAMME OFFERED

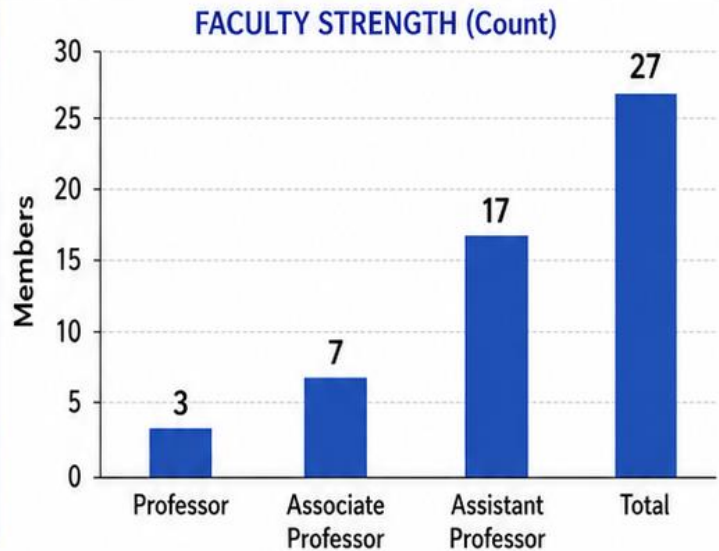
Our Electrical and Electronics Engineering Department at Sri Manakula Vinayagar Engineering College provides a **B.Tech** in Electrical and Electronics Engineering, emphasizing innovative power systems and renewable energy solutions.

S.No.	Course	Specialization	Duration
1.	B.Tech	Electrical and Electronics Engineering	4 Years



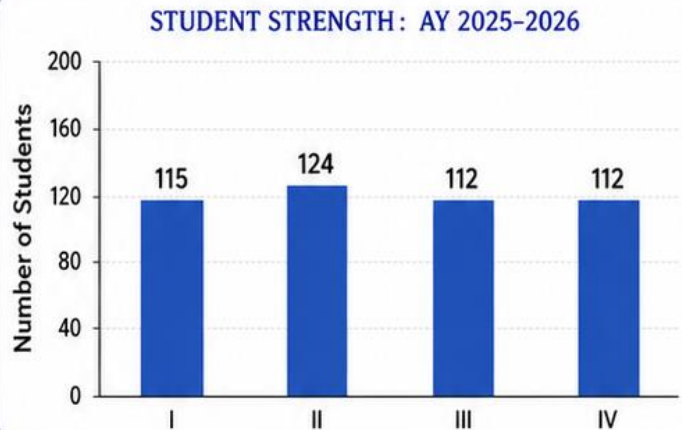
FACULTY STRENGTH: AY 2025-2026

Designations		Count
Ph.D	Professor	3 Members
	Associate Professor	7 Members
	Assistant Professor	17 Members
Total		27 Members



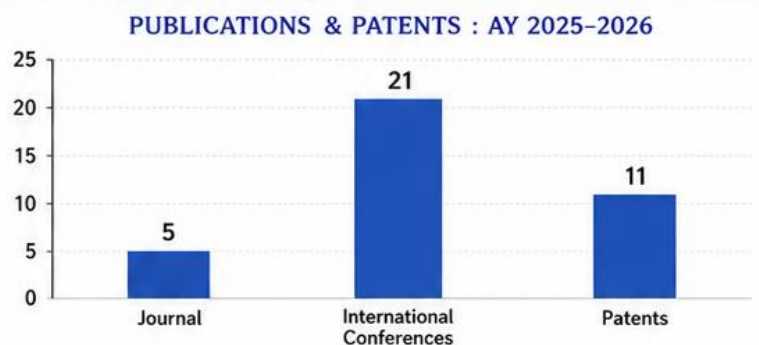
STUDENT STRENGTH: AY 2025-2026

Year	Batch	Total Number of Students
I	2025-2029	115
II	2024-2028	124
III	2023-2027	112
IV	2022-2026	112
Total		463



PUBLICATIONS & PATENTS: AY 2025-2026

S.No.	Publications	Count
1.	Journal	05
2.	International Conferences	21
3.	Patents	11





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LABS / FACILITIES

INFRASTRUCTURE



Electrical Engineering Lab: focuses on home and industrial wiring.



Electronics I Lab: Provides basic electronics understanding.



Electronics II Lab: teaches the creation of analogue and digital circuits.



Electronics III Lab: covers linear and digital integrated circuits.



Electrical Machines I Lab: Practical knowledge of transformers and DC machines.



Electrical Machines II Laboratory: Characteristics and Applications of AC Machines.



Microprocessor and Microcontroller Lab: In-depth analysis of the 8085 microprocessor and the PIC16F877A microcontroller.



Power Electronics and Drives Lab: Electrical drive control techniques based on microcontrollers.



Power System Simulation Lab: Models for simulating an electric power system.



Electric and Hybrid Vehicle Laboratory: Design, testing, and analysis of electric vehicles.



Measurement and Control Lab: The fundamentals of measurement systems.



Embedded System Lab: Real-time electric systems based on ARM 7 processors.

RESEARCH FACILITIES



Electrical machine performance validation setup.



PLC Training equipment with motor setup.



FPGA speed control of BLDC motor.



IoT Development Kit.



Universal programmer burner.



PIC 16F and ARM 7 Development Boards.



Real-time MATLAB interfacing.



Jetson Nano



**EMPOWERING MINDS,
ELECTRIFYING FUTURES**



STUDENT PARTICIPATIONS

ODD SEMESTER

2025-2026

Project Demonstration



NVIDIA JETSON NANO-BASED ADAS

Our Department II-Year student **Kathick Kishore** & his team working on an **NVIDIA Jetson Nano-based ADAS** (Advanced Driver Assistance System) project. Using a camera and AI-based object detection (YOLO), the system can identify vehicles, pedestrians, traffic signs, and road obstacles in real time. The project demonstrates edge AI and computer vision for improving road safety.



EDGE AI

Real-time inference at the edge for smarter decisions.



ADAS SYSTEM

Advanced Driver Assistance for safer and smarter driving.



COMPUTER VISION

YOLO-based detection for vehicles, pedestrians, traffic signs & obstacles.



JETSON NANO

Powerful AI computing platform for embedded applications.

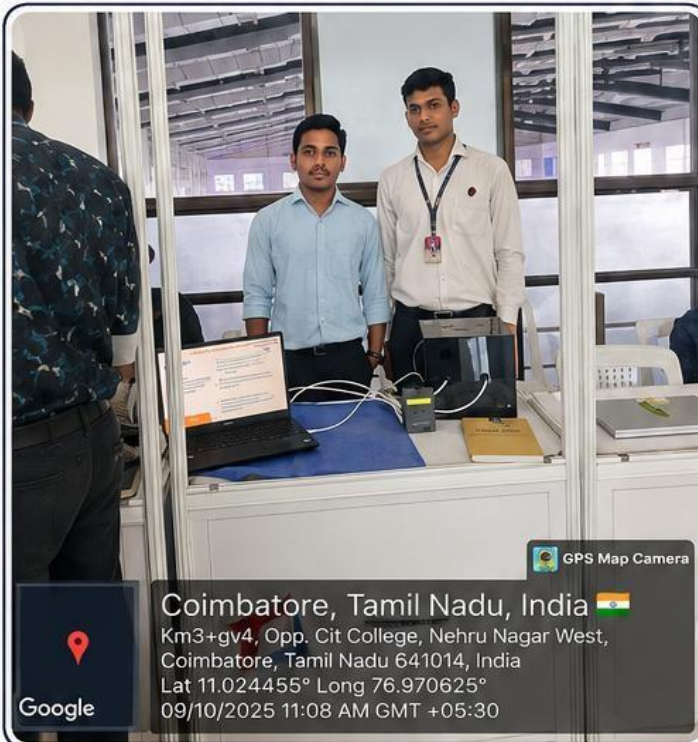
STUDENT PARTICIPATIONS

ODD SEMESTER

2025-2026



The students from the department of EEE actively participated in **Micro-Project Expo** on **Innovator's Day '25** conducted at SMV school campus on September '25.



Our Department Final Year students' actively participated in **Project expo** conducted at **CIT college**, Coimbatore on **09/10/2025**.

55th ISTE NATIONAL ANNUAL FACULTY CONVENTION 2025



The faculty members of our institution actively participated in the **55th ISTE National Annual Faculty Convention 2025**, organized by Sri Manakula Vinayagar Engineering College, Puducherry. The convention was centred on the theme **"Reimagining Education 5.0: Emerging Technology for a Sustainable Future,"** highlighting the transformative role of advanced technologies in shaping future-ready education systems.



WELCOME OF CHIEF GUEST



Our department Faculty member **Mr. B. Parthiban**, Assistant Professor/EEE welcomed our chief guest **Dr. Satya Pal Singh**, Former Union Minister and Former Commissioner of Police, Mumbai at Chennai Airport for the event.

FACULTY PARTICIPATION & PAPER PRESENTATION



Our Department Faculty members actively participated in the event & presented their research papers in areas such as **AI, Renewable energy, Embedded systems, Smart technologies, Drives & Motor controls and Emerging engineering applications.**



AI



Renewable Energy



Embedded Systems



Smart Technologies



Drives & Motor Controls



Emerging Engineering Applications

ACHIEVERS PAGE

SMART INDIA HACKATHON 2025 FINALS



SMART INDIA
HACKATHON
2025

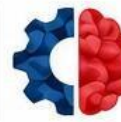
#SmartIndiaHackathon2025
World's Biggest Open Innovation Model



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE



Ministry of
Education
Government of India



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



i4C & AIoT Lab



SIH25124

AICTE, MIC-Student
Innovation-Toys & Games



SIH Hardware edition



Students from the Department of EEE achieved a remarkable victory in the Smart India Hackathon (SIH) 2025 (5th to 12th Dec'25) – **Hardware Edition** by emerging as winners and secured a cash prize of **₹1,50,000**. Team AOT participated at Raigarh, Chhattisgarh, under **SIH Problem ID: SIH25124** organized by AICTE and MIC – Student Innovation (Toys and Games).



TEAM MEMBERS

- Surendar K (Team Leader – EEE)
- Gokul V (EEE)
- Goutham Kannan V (ECE)
- Harini P (AI&DS)
- Kausessiga Jain (IT)
- Harileen Kaur T (IT)



GUIDED & MENTORED BY

- Dr. D. Raja, Professor, EEE
- Mr. G. Rajavel, Assistant Professor, EEE





SMART INDIA
HACKATHON
2025

#SmartIndiaHackathon2025
World's Biggest Open Innovation Model



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Ministry of
Education
Government of India



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



i4C & AIoT Lab



SIH25143

Ministry of Social Justice &
Empowerment (MoSJE)



SIH Hardware edition



Team **Neutrons** from the Department of EEE participated in the Smart India Hackathon (SIH) 2025 – Hardware Edition held at Greater Noida near New Delhi under SIH Problem ID: **SIH25143** organized by the Ministry of Social Justice and Empowerment emerged as winners and also secured a cash prize of **₹1,50,000**.



TEAM MEMBERS

- Arokia Anandu Prasanthu A (Team Leader – EEE)
- Lalith Kumar S
- Arun Pradapan S
- Mukeshkumar R
- Kavimenjai L (EEE)
- Dharani E (Mechanical)



MENTORED BY

- Mr. B. Parthiban
Assistant Professor / EEE
- Dr. D. Sivaraj
Professor / EEE

★★ Innovation for Empowerment, Technology for Change ★★

INDUSTRY COLLABORATIONS

MoU	PARTNERSHIP	SPONSORED LAB
TVS Training & Services 	MathWorks Faculty Development Programme (FDP) and student training sessions on Onramp Courses were conducted through ARK Infosolutions Pvt. Ltd. to enhance technical proficiency in MATLAB, Simulink, and emerging engineering applications. 	AICTE-India The Department of Electrical and Electronics Engineering established an All India Council for Technical Education sponsored MODROB Laboratory with advanced facilities including Electric Machine Analysis setup, IoT Kits, BLDC Controller, and PLC systems. The laboratory enhance students' practical learning, research capabilities, and hands-on experience in modern electrical engineering and industrial automation technologies. 

RECRUITERS & FUTURE PLANS

TOP RECRUITERS



and many more...

Future plan



Increase internship opportunities through industry partnerships and **MoUs**.



Encourage students to participate in research, innovation, hackathons, and startup activities.



Conduct industry-oriented workshops, certification courses, and industrial visits regularly.



Improve placement in multinational and product-based companies with higher salary packages.



Promote entrepreneurship and interdisciplinary project development among students.



EDITORIAL BOARD

— ODD SEMESTER 2025–2026 —

DEPARTMENT NEWSLETTER – ELECTRIC

VOL:

11

ISSUE:

24

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DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE, PUDUCHERRY

— Empowering Innovation through Electrical Excellence —