



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, ISO 9001:2000 Certified Institution &
Accredited by NAAC with "A" Grade)
Madagadipet, Puducherry - 605 107



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NEWSLETTER "ELECTIC"

— ODD SEMESTER —

June 2023 – November 2023



Empowering Minds,
Electrifying Futures



MESSAGE SECTION



With regards

Dr. V.S.K. Venkatachalapathy

Director cum Principal

MESSAGE FROM

DIRECTOR CUM PRINCIPAL

Sri Manakula Vinayagar Engineering College provides a serene and disciplined environment that helps students concentrate on their academic and personal growth. The institution is supported by highly qualified and dedicated faculty members in every department who guide students towards excellence. The college administration continuously strives to develop competent engineers equipped for the modern digital world through quality education and value-added courses that enhance employability skills. Along with academics, the institution emphasizes discipline, ethics, and character building to shape students into responsible citizens.



Accredited with NAAC 'A' Grade in 2013, the college became the first engineering institution in the Union Territory of Puducherry to receive this prestigious recognition.



From its very first batch, students have consistently secured university top ranks and gold medals under Pondicherry University.



The campus is equipped with state-of-the-art laboratories, modern equipment, a well-stocked library, and separate hostel facilities with gym amenities for boys and girls, ensuring a comfortable and enriching learning experience.



MESSAGE FROM

HOD



With regards

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

Professor and Head,
Department of Electrical and
Electronics Engineering



Accredited by the NBA since 2008, the department continuously updates its curriculum to meet emerging trends in renewable energy, electric vehicles, and artificial intelligence.



Through value-added courses, hands-on training, and soft skill development programmes, students are well prepared for employment and competitive examinations.



The department is committed to nurturing future-ready engineers by combining academic excellence with practical exposure and research opportunities, making it one of the leading EEE departments in Puducherry.



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.



DEPARTMENT HIGHLIGHTS



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ODD SEMESTER

2023-2024

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

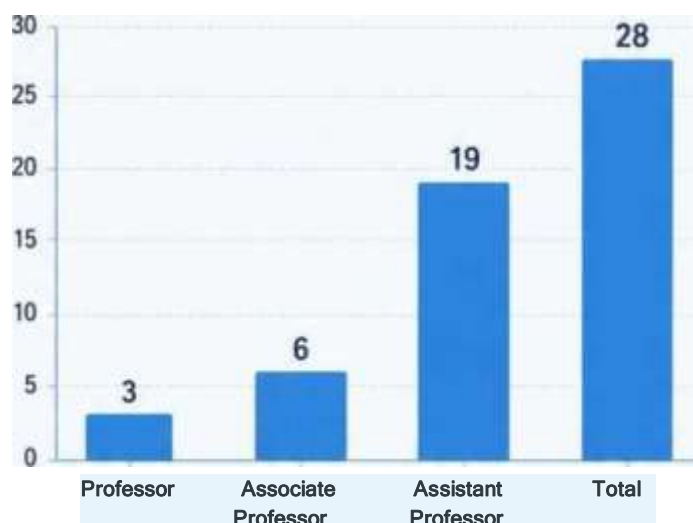
Our Electrical and Electronics Engineering Department at Sri Manakula Vinayagar Engineering College provides a **B.Tech** in Electrical and Electronics Engineering, emphasizing innovative power systems and renewable energy solutions.

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

FACULTY STRENGTH: AY 2023-2024

Designations		Count
Ph.D	Professor	3 Members
	Associate Professor	6 Members
Assistant Professor		19 Members
Total		28 Members

FACULTY STRENGTH: AY 2023-2024



STUDENT STRENGTH: AY 2023-2024

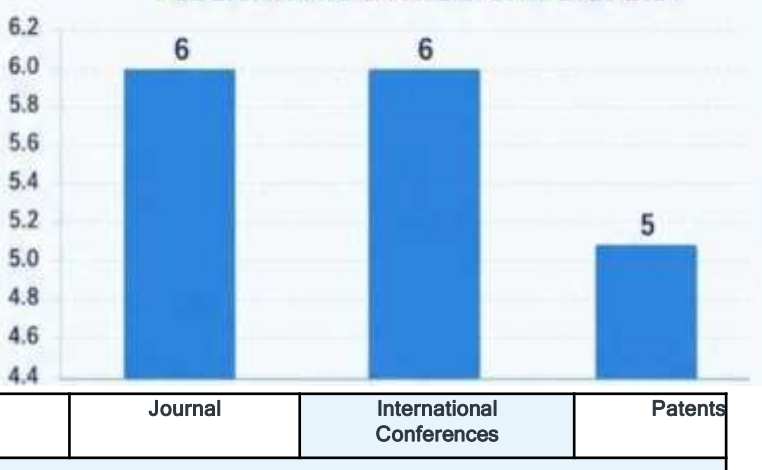


Year	Batch	Total Number of Students
I	2023 - 2027	108
II	2022 - 2026	112
III	2021 - 2025	88
IV	2020 - 2024	124
Total		432

PUBLICATIONS & PATENTS: AY 2023-2024

S.No	Publications	Count
1.	Journal	06
2.	International Conferences	06
3.	Patents	05

PUBLICATIONS & PATENTS: AY 2023-2024





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: 2023-2024



EEE students from Sri Manakula Vinayagar Engineering College were shortlisted and participated in the Inventors Challenge 2023 organized by All India Council for Technical Education, Atm Education, and STMicroelectronics at Delhi in November 2023.



Students of EEE attended a workshop on solar panels and solar power stations in July 2023. The session covered the fundamentals of solar energy, panel installation techniques, power station design, and maintenance practices. Students also learned about recent advancements in photovoltaic technology, grid integration, and sustainable energy solutions, enhancing their practical knowledge in the renewable energy sector.



CAREER GUIDANCE SESSION

08th DECEMBER 2023



A career guidance session was organized by the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College to provide students with insights into emerging career opportunities in the electric vehicle industry. The session covered various domains including EV design, manufacturing, battery technology, charging infrastructure, and research. The program enhanced students' awareness of career prospects in the EV sector, guided them on the essential skillsets required for industry readiness, and motivated them to explore opportunities in sustainable mobility and electric vehicle technologies.



RENEWABLE ENERGY SOURCES CLUB

26th AUGUST 2023



Note: cam lite

Address: Madagadipet, Puducherry, India

Latitude: 11.9117106°

Longitude: 79.6346405°

Altitude: 26.0 meter

Date: 08/26/2023 04:23 PM

Accuracy: 45.6 meter

Time zone: GMT+05:30

Note: Renewable Energy sources Club

The Renewable Energy Sources Club of the Department of EEE conducted a practical session on solar panel systems on 26th August 2023. Students actively participated in hands-on demonstrations, learning about solar panel components, wiring connections, and energy generation principles. The session enhanced their understanding of renewable energy technologies and promoted awareness of sustainable power solutions.



INDUSTRIAL VISIT

15th DECEMBER 2023



Vilappuram, Tamil Nadu, India
XQRP+Q2J, Tamil Nadu 605502, India
Lat 11.091171°
Long 79.785034°
08/12/23 11:56 AM GMT +05:30

First-year students from the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College visited Sri Ramakrishna Transformers in December 2023 as part of their industrial exposure program. The visit provided hands-on learning experience in transformer manufacturing, testing procedures, and quality control processes. Students gained practical insights into transformer working principles, design aspects, and maintenance practices, helping bridge the gap between theoretical knowledge and real-world industrial applications.



HANDS-ON TRAINING SESSION

25th NOVEMBER 2023



Puducherry, PY, India
Milemarker 74.6, Puducherry, 605107, PY, India
Lat 11.961064, Long 79.834133
11/25/2023 03:44 PM GMT +05:30
Note: Captured by GPS Map Camera

A Hands-on Training Session was conducted on 25th November 2023 (01:00 PM - 04:00 PM) by the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College. The session focused on practical skill development through interactive training activities designed to enhance students' technical proficiency and application-based learning. The program significantly improved students' practical understanding, strengthened their problem-solving abilities, and boosted their confidence in applying theoretical concepts to real-world engineering applications.



OUR MISSION

To develop competent electrical engineers with strong technical foundations, ethical values, and a commitment to innovation for a sustainable future.



FOCUS AREAS

- Electric Vehicles & Mobility
- Renewable Energy Systems
- Smart Grids & Power Systems
- Industry Collaboration & Innovation
- Hands-on Learning & Skill Development

TOGETHER WE BUILD A
SUSTAINABLE TOMORROW!



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE (AN AUTONOMOUS INSTITUTION), PUDUCHERRY

Empowering Innovators, Energizing Tomorrow



A technical session was organized by the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College to provide in-depth knowledge on various types of sensors, their working principles, and diverse applications in engineering, industry, and everyday life. The program enhanced students' understanding of sensor technology, improved awareness of its significance in modern systems, and inspired greater interest in sensor-based innovation, research, and project development.

CLUB ACTIVITIES/HACKATHONS



Students from the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College were shortlisted and participated in the Smart India Hackathon 2023 Senior Final - Hardware Edition organized by the Ministry of Education and All India Council for Technical Education from 11.12.2023 to 15.12.2023, held at Kumaraguru College of Technology in association with Foige. The participation provided students with valuable exposure to real-time problem solving, innovation-driven project development, and collaborative engineering practices at a national-level technical competition.



The Department of EEE conducted Engineering Club activities every Saturday, encouraging students to engage in hands-on projects, technical discussions, and skill-building exercises. These sessions helped enhance creativity, teamwork, and practical knowledge in various domains of electrical and electronics engineering.



INDEPENDENCE PARADE EVENTS- The Department of EEE celebrated Independence Day in August 2023 on the college premises with great enthusiasm. The event included flag hoisting, patriotic speeches, and cultural performances by students, fostering a spirit of unity, pride, and respect for the nation.

ALUMNI INTERACTIONS

The Electric Vehicle Club of the Department of EEE conducted an interactive session on electric vehicle technology. The session covered the fundamentals of EV components, working principles, and charging infrastructure. Students gained insights into advancements in mobility, sustainable transportation solutions, and career opportunities in the electric vehicle industry.



The EEE department Kabaddi team emerged victorious in the tournament, showcasing exceptional teamwork, strength, and strategic play. Their dedication, discipline, and sportsmanship brought pride to the department, inspiring fellow students to participate actively in sports and extracurricular activities.



The Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College organized an "Alumni Meet" in September 2023 to strengthen the bond between alumni, students, and faculty members. The event provided a platform for alumni to share their professional experiences, career guidance, and industry insights with current students.



The Alumni members of the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College conducted various placement activities for final-year students, including training sessions, mock interviews, and skill development workshops to enhance their aptitude, communication, and technical abilities in preparation for campus recruitment and career opportunities.

INDUSTRY COLLABORATIONS

MoU

TVS Training & Services



PARTNERSHIP

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.



SPONSORED LAB

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

TOP RECRUITERS



and many more...

EDITORIAL BOARD

Vol: 9 | Issue: 20

Chief Editor

Dr.P.Jamuna,
Professor & HOD, EEE Dept.

Editor

Dr.D.Raja,
Professor, EEE Dept.

Faculty Advisors

Mr.B.Parthiban,
Assistant Professor

Mr.S.John phwol,
Assistant Professor, EEE Dept.

Editors

Ms. Keerthana G M -II Year/EEE
Mr. Karmukilan A G M -II Year/EEE

Content Writer

Mr. Sathish Francis Xavier R -III Year/EEE
Mr. Karthikeyan P -III Year/EEE

Associate Editors

Mr. K. Jothikrishnan-III Year/EEE
Mr. D. Jayakumar -III Year/EEE
Mr. G. Jeevasudhan -III Year/EEE