



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 2022 -
December 2022



Volume-8
Issue-18



"Empowering Minds, Electrifying Futures"



KNOWLEDGE
Empowering with
Excellence



INNOVATION
Encouraging Creative
Thinking



LEARNING
Building Skills
for Tomorrow



LEADERSHIP
Inspiring Future
Leaders



TEAMWORK
Together We Achieve
More

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Principal's Message



Dr. V.S.K. Venkatachalapathy
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.

HOD's Message



Dr. P. Jamuna, B.Tech, M.E, Ph.D.
Professor and Head,
Department of Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College was established in 1999 with an initial intake of 40 students and has grown significantly, currently accommodating 120 students along with an M.Tech programme in Power Electronics and Drives. Recognized as a Research Centre in 2021-2022, the department strongly focuses on research, innovation, and industry collaboration through partnerships with organizations such as TVS Lucas and Appasamy Associates. 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.

“Guidance that *inspires*, Leadership that *empowers*. ^





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 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.



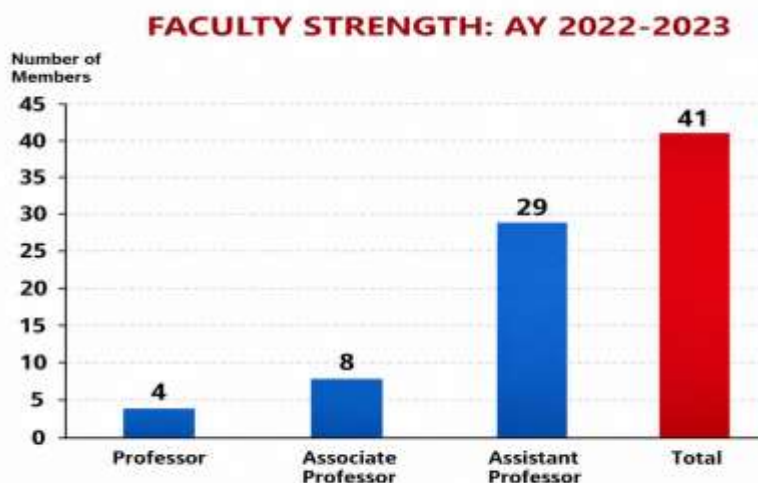
PROGRAM'S OFFERED

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

DEPARTMENT HIGHLIGHTS

FACULTY STRENGTH: AY 2022-2023

Designations		Count
Professor		4 Members
Ph.D.	Associate Professor	8 Members
Assistant Professor		29 Members
Total		41 Members



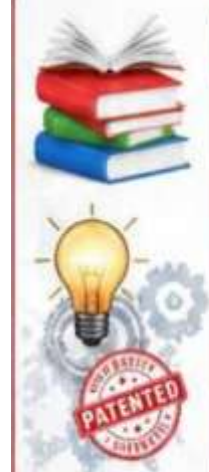
STUDENT STRENGTH: AY 2022-2023



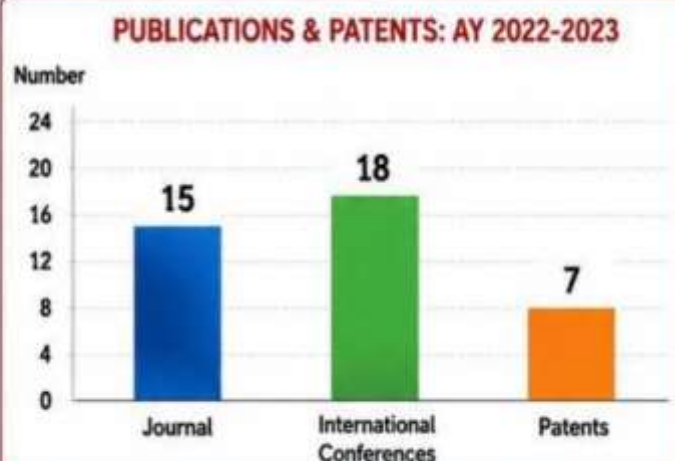
Year	Batch	Total Number of Students
I	2022-2026	105
II	2021-2025	88
III	2020-2024	124
IV	2019-2023	118
Total		435



PUBLICATIONS & PATENTS: AY 2022-2023



S.No.	Publications	Count
1.	Journal	15
2.	International Conferences	18
3.	Patents	07
Total		40



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.**



- **Jetran Nano**



- **Jetran Nano**

STUDENT PARTICIPATIONS

2022-2023



A three-day boot camp training was organized from 17th to 19th October 2022 under the CII Innovation Contest 2022 by Atal Incubation Centre - Pondicherry Engineering College Foundation for students of Sri Manakula Vinayagar Engineering College. Two teams from the Department of Electrical and Electronics Engineering were shortlisted for Stage II. One team was led by Sarvitha M (Second Year) with team members Suravthy M.S, Keerthiga M (Second Year), and Rahini T (First Year). Another team was led by Bonish Pujitha along with team members Janis Abhija A,J and Lokanand G from Final Year.

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Mr. Selvakumar, Senior Engineer at Qualcomm, Bangalore, delivered an online guest lecture on "History and Recent Trends on Microcontroller" to II Year EEE students of Sri Manakula Vinayagar Engineering College on 05.08.2022. The session highlighted the evolution, applications, and emerging trends in microcontroller technologies. ^^

Empowering Minds, Electrifying futures



A two-day workshop on "Atoms in the Service of the Nation" was organized on **26.07.2022** by Indira Gandhi Centre for Atomic Research, Kalpakkam, in collaboration with **Sri Manakula Vinayagar Engineering College**. Students from various schools and colleges participated in the workshop, visited the exhibition, and gained valuable insights into atomic energy applications and nuclear research advancements.



Mr. **K. Kangaasabal** Kumaraswamy, Electrical Safety Engineer at Kuwait National Perrolony, delivered a guest lecture on "**Electrical Safety and Area Classification**" to IV Year EEE students of **Sri Manakula Vinayagar Engineering College** on **12.08.2022**. The session provided valuable insights into electrical safety practices, hazardous area classification, and industrial safety standards.



Mr. **Bhuvaneshwara R**, Engineer at Siemens SITRAIN, conducted a hands-on demonstration session on "PLC and SCADA Technology" for II and III Year EEE students of **Sri Manakula Vinayagar Engineering College**. The session provided practical exposure to industrial automation concepts, PLC programming, and SCADA-based monitoring systems.



Guest Lecture "introduction to UX design, process and its impact"

The Guest lecture was arranged by IEI Student Chapter to the Students of Electrical and Electronics Engineering.

The lecture was delivered by Mr. Damini Joe Ambrose, Senior Architect - UX, Ramco Systems, Chennai. He discussing about role of senior architect in the company, and also discuss various projects used in the companies.





The Department of Electrical and Electronics Engineering organized the "Idea Presentation - Mini Project Contest 2022" on **12.12.2022** to encourage students to showcase innovative ideas, technical creativity, and project development skills. The event provided a platform for students to present practical engineering solutions and enhance their problem-solving and presentation abilities.



Third-year students visited **Viji Power Transformers Pvt. Ltd., Bangalore**, a company specializing in the design, manufacturing, testing of power and distribution transformers. During the visit, they gained insights into various stages of transformer production, including core assembly, coil winding, insulation, tank fabrication, oil filling, and quality testing.

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING
"EMBEDDED SYSTEM CLUB"
ORGANIZES



A webinar on "History and Recent Trends on Microcontroller" was conducted on **05.09.2022** by Mr. S. Selvakumar, Senior Engineer at Qualcomm, Bangalore. The session provided students with insights into the evolution, applications, and emerging trends in microcontroller technologies.



The General Manager of **MANATECH Private Ltd.** visited the laboratories of the Department of Electrical and Electronics Engineering at **Sri Manakula Vinayagar Engineering College** on **21.09.2022**. The visit provided an opportunity to interact with faculty and students and to observe the department's laboratory facilities, technical activities, and research initiatives.

ACADEMIC AUDIT



An Academic Audit was conducted on 31.10.2022 at **Sri Manakula Vinayagar Engineering College**. Expert faculty members from various departments carried out the audit to evaluate academic processes, teaching practices, documentation, and overall departmental performance for continuous quality improvement.

CLUB ACTIVITIES



Our students got an opportunity to showcase their talents and prove what they are capable of. The final year students of EEE were the Runners up in the EPL cricket event, conducted on the 4th of July 2022 and were rewarded by our chairman and Managing Director.



Our Clubsaa has conducted "**ULTRAMATE KABADDI CHAMPIONSHIP**" which we organized by the department of Electrical and Electronics Engineering.

The finals were conducted on 10th August 2022.

Our First- and second-year students were the winners and were rewarded by our Chairman and Managing Director during Independence Day celebration.



ALUMNI INTERACTION



A guest lecture on "Software Development Hiring Trends" was conducted on 29.10.2022 by our Alumni Mr. S. Sri Balaji, Associate Engineer at Harman International, Bangalore. The session provided students with valuable insights into current recruitment trends, industry expectations, and career opportunities in software development.

ACHIEVERS PAGE



A student team from **Sri Manakula Vinayagar Engineering College**, Puducherry, led by **Dhirajkumar. S** (Final Year EEE) along with students from EEE, ECE, ICE, and Mechatronics, won First Prize with a cash award of ₹1 lakh for their innovative project "Ready to Use First Aid Kit for Military Use." The project was developed under the guidance of **Dr. D. Raja** and **Mr. C. Adrien Periyannayagam** from the Department of EEE.



EXCELLENCE
Commitment to
quality in education
and practices



ENGAGEMENT
Building strong
connections and
collaborations



GROWTH
Encouraging
continuous learning
and development



ACHIEVEMENT
Recognizing talent
and celebrating
success

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.	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



zentrience



DRAKION

Sa u w ENERGY WORKS

PsNTAso



A

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.

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