



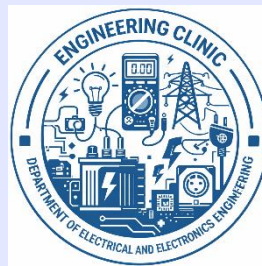
SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING**

ENGINEERING CLINIC – REPORT

(ANNUAL REPORT 2023- 2024)



Submitted by
Mr.G.Rajavel
Assistant Professor
Faculty Coordinator



Preface

The Engineering Clinic of the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College functions as a structured academic platform designed to strengthen students' technical competence through experiential and application-oriented learning. The initiative is guided by the Dean, Head of the Department, and dedicated faculty coordinators, with the active support of committed teaching staff. It provides a systematic environment where undergraduate students participate in organized technical activities and hands-on training sessions. The clinic primarily focuses on the troubleshooting and maintenance of real-time electrical and electronic appliances, allowing students to connect theoretical concepts with practical implementation.

Through these activities, students gain exposure to fault identification, component-level analysis, and system-level diagnostics. They are trained to follow structured problem-solving methodologies, use appropriate testing instruments, and adopt safe working practices. The Engineering Clinic also encourages interdisciplinary learning, technical documentation, and collaborative teamwork among students. By working on real-world problems, students improve their analytical thinking, technical accuracy, and decision-making skills.

In addition, the clinic promotes professional ethics, responsibility, and effective communication, which are essential qualities for modern engineers. Regular technical sessions, demonstrations, and guided practice help students build confidence in handling electrical and electronic systems. The initiative not only enhances practical knowledge but also prepares students to meet industry expectations. Overall, the Engineering Clinic plays a significant role in producing competent, industry-ready engineers and contributes to the academic excellence and technological development of the institution.



Dr. D. Raja
Program co-convener



Mr. G. Rajavel
Program Coordinators


HOD/EEE

(Dr. P. Jamuna)

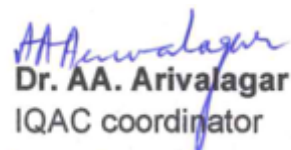
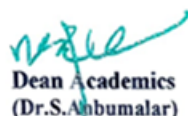

Dr. AA. Arivalagar
IQAC coordinator
Dean Academics
(Dr. S. Abbumalar)
Director cum Principal
(Dr. V.S.K. Venkatachalapathy)

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ABOUT THE INSTITUTE

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programs in engineering. SMVEC has been accredited by NAAC with “A” grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

Vision

- To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

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 instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



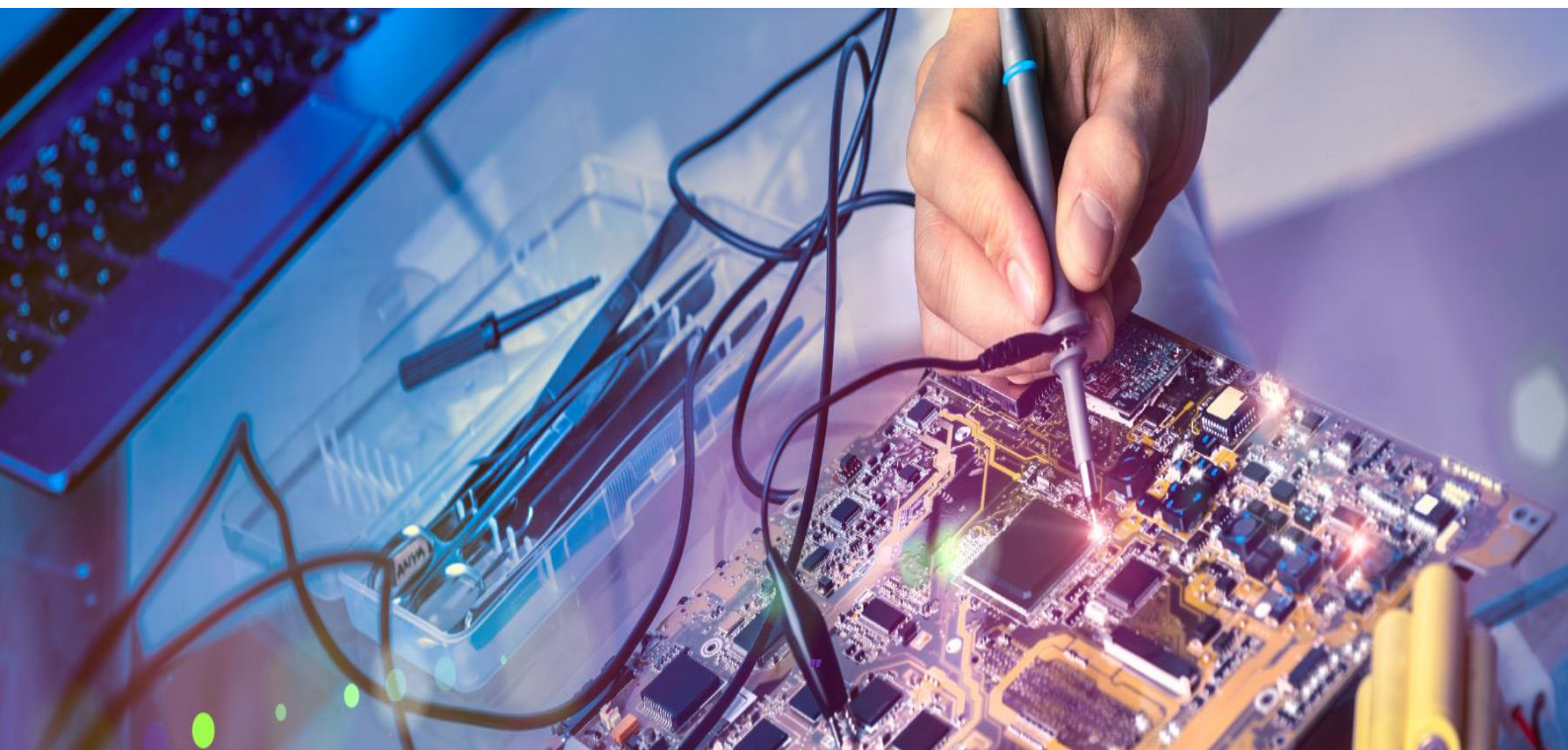
DEPARTMENT VISION AND MISSION

Vision

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

Mission

- Academic Excellence: To impart high quality technical education with problem solving capabilities by innovative pedagogy in emerging technologies
- Industrial and Societal Needs: To cater the dynamic needs of the industry and society by strengthening industry - institute interaction.
- Research and Innovation: To nurture the spirit of research attitude by carrying out innovative technologies pragmatically.
- Placement and Entrepreneurship: To inculcate the professionalism in career by advancing synergetic skills to compete in the corporate world.



Engineering Clinic

Objective of Engineering clinic club

The objective of the “Engineering Clinic” is to form a student’s forum those who are interested in handling Electronics gadgets/Home appliances and in turn to troubleshoot the Electronics gadgets/Home appliances which are not in working conditions. Also, this forum will help to enhance students’ skills in multidisciplinary aspects.

OFFICE BEARERS AND THEIR PORTFOLIOS

SL.NO	NAME OF THE FACULTY	DESIGNATION	POSITION
1.	Dr.S. Anbumalar	Dean Academics	Program Convener
2.	Dr. P. Jamuna	Professor / EEE	Program co-convener
3.	Dr. D. Raja	Professor / EEE	Program co-convener
4.	Mr. R. Ragupathy	AP/EEE	Program Coordinators
5.	Mr. G. Rajavel	AP/EEE	Program Coordinators
6.	Dr.S. Ganesh Kumaran	Asso.Prof	Member
7.	Dr.Sivaraj	AP/EEE	Member
8.	Mr.A. Janagiraman	AP/EEE	Member
9.	Mr.K. Thangaraj	AP/EEE	Member
10.	Mr.J.Muruganandham	AP/EEE	Member
11.	Mr.Adrien Periyamayagam	AP/EEE	Member
12.	Mr.I. Shivasankkar	AP/EEE	Member
13.	Mr.R. Vignesh	AP/EEE	Member
14.	Mrs.K.Kavinlavu	AP/EEE	Member
15.	Ms. Abinayasaraswathi	AP/EEE	Member
16.	Mr.Elanthamizh	AP/EEE	Member



Dr. D.Rajaj
Professor
Faculty Co-convener



Mr .G. Rajavel
Assistant Professor
Program Coordinator



Dr.s.Ganesh Kumaran
Associate Professor
Member



Mr.A.Janagiraman
Assistant Professor
Member



Mr.K.Thangaraj
Assistant Professor
Member



Mr.J.Muruganandham
Assistant Professor
Member

Functions of Engineering Clinic

- Hands on - Students apply what they are learning about.
 - Integrated - Demonstrate correlations with supporting course work.
 - Multidisciplinary - Involve students as a community of problem solvers.
 - Teamwork - Emphasize the advantage of effective teaming.
 - Entrepreneurial - Reinforce value-based engineering.
 - Contextual - Help students understand the big picture.
 - Every Saturday Faculties have to explain about the troubleshooting of domestic electrical appliances.
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- The faculty members have to train the students to identify the Fault in an electrical appliance.
 - The Faculty members need to provide the hands on training to the students.

Student Members of the Club :

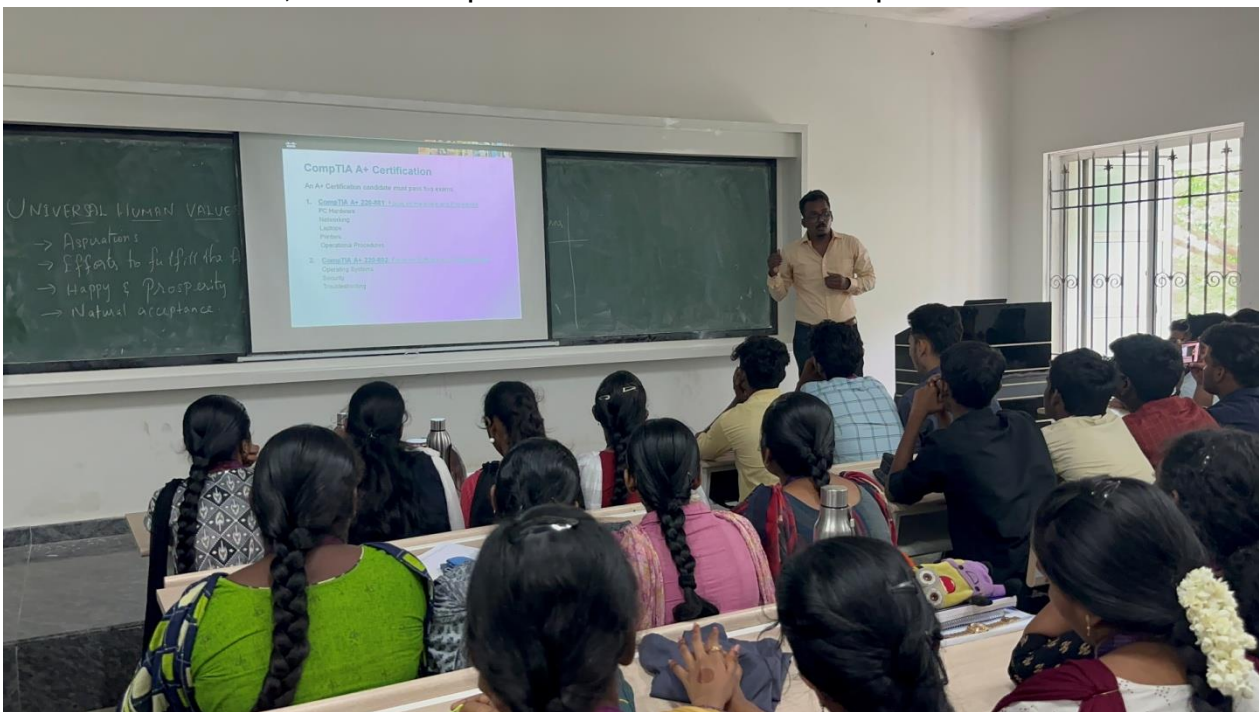
All I Year, II Year & III Year students of the Department

Engineering Clinic – Activity Report

Academic Year	: 2023 - 2024
Date/Day/Time	: 7.05.2024/Saturday / 9.30 a.m to 1.30 p.m
Year/Sem/Batch	I/ II / 2023-2027
Activities	Hands on training in troubleshooting of Laptops and CPU's



Mr.G.Paranidharan, External Expert has been delivered the presentation about



troubleshooting of Laptops and CPU

Demonstration of the internal parts like motherboard, RAM, cables, SMPS in Laptops and CPU to the students.



Explanation of various cables and their connection procedure in Laptops & CPU



Description of advanced types of motherboard used for Laptop & CPU


HOD/EEE
(Dr.P.Jamuna)


Dean Academics
(Dr.S.Anbumalar)


Director cum Principal
(Dr.V.S.K.Venkatachalapathy)

Engineering Clinic – Activity Report

AcademicYear	:	2023 - 2024
Date/Day/Time	:	13.03.2024/Saturday / 8.45 a.m to 4.20 p.m
Year/Sem/Batch	:	IV / VIII / 2020-2024
Activities	:	Practical Demonstration of Domestic wiring and energy meter connections



Mr.R.Ragupathy AP/EEE addressed about an Domestic wiring connections and fuse rating calculation and diameter of wiring.



Mr.A.Janagiraman AP/EEE, delivered about the Domestic wiring connections and Procedure to handling multimeter, Energy meter connections.


H&D/ EEE
(Dr.P.Jamuna)


Dean Academics
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