



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING**

RENEWABLE ENERGY CLUB

(Academic Year: 2024 to 2025)



Submitted by
Dr. D.Sivaraj
Assistant Professor
Faculty Coordinator



Preface

The Renewable Energy Club of the Department of Electrical and Electronics Engineering, Sri Manakula Vinayagar Engineering College, serves as a dedicated platform to promote awareness, innovation, and practical learning in the field of renewable and sustainable energy systems. The club is established with the objective of bridging the gap between theoretical knowledge and real-time applications in areas such as solar energy, wind energy, energy storage systems, electric vehicles, smart grids, and sustainable power generation technologies. The club actively encourages students to explore emerging trends in renewable energy through hands-on demonstrations, technical workshops, training programs, expert lectures, project development, and interdisciplinary activities, including practical exposure to solar power generation, solar pumping systems, solar trackers, autonomous solar-based robots, and sensor-based energy applications. By fostering analytical thinking, problem-solving skills, environmental responsibility, and teamwork, the club aims to prepare students to address global energy challenges and contribute to sustainable development. The effective functioning of the club is supported by a committed team of faculty coordinators and student office bearers, including the President, Vice President, Secretary, and Technical Members, who work collaboratively to plan, organize, and execute various technical and co-curricular activities. Through continuous learning, innovation, and industry-oriented initiatives, the Renewable Energy Club strives to develop technically competent, socially responsible, and professionally skilled engineers, thereby contributing to the academic excellence and technological advancement of the institution.

Faculty Coordinator
Dr. D. Sivaraj

(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

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.



ABOUT THE RENEWABLE ENERGY CLUB

Renewable energy systems are referred to as sustainable power solutions designed to harness naturally replenished energy sources such as solar, wind, biomass, hydro, and geothermal energy. Renewable energy technologies are widely applied in areas such as power generation, electric vehicles, smart grids, energy storage systems, green buildings, and rural electrification. Considering the increasing global energy demand, environmental concerns, and the need for sustainable development, renewable energy can be regarded as one of the most significant technologies of the present and future.

The function of the Renewable Energy Club is to build strong fundamentals in energy systems and sustainability concepts. This club aims to explore emerging topics and practical applications that extend beyond the regular curriculum, including recent advancements, policies, and real-world case studies. The club supports students by integrating knowledge from electrical, mechanical, electronics, and environmental engineering, enabling them to develop innovative, eco-friendly solutions and prepare for challenges in the evolving energy sector.

OBJECTIVES:

- To create awareness about the importance of renewable energy and sustainable development among students.
- To provide fundamental knowledge on various renewable energy sources such as solar, wind, biomass, and hydro energy.
- To expose students to emerging technologies and recent advancements in the renewable energy sector beyond the curriculum.
- To encourage hands-on learning through workshops, projects, and demonstrations related to renewable energy systems.



OFFICE BEARERS AND THEIR PORTFOLIOS

S.No	Name	Position
1.	Dr.D.Sivaraj Assistant professor/EEE	Faculty Coordinator
2.	Mr. A.Janagiraman Assistant professor/EEE	
3.	Mr. Elamparuthi K	President
4.	Mr. K. Jothikrishnan	Vice president
5.	Mr.Srisanthosh B	Secretary
6.	Mr. E.K Abdullah	Joint Secretary
7.	Mr. Tom Tijo Edattukaran	
8.	Ms. M. Savitha	Executive Members
9.	Mr. Mohanlal	
10.	Ms. M.Swetha	Technical Members
11.	Mr. Jeeva sudhan	
12.	Ms. Susangati Samantaray	



Dr. D.Sivaraj
Assistant Professor
Faculty Coordinator



Elamparuthy
President



Jothi Krishnan
Vice President



Mr. Mohanlal
Executive Member



Jeeva Sudhan
Technical Member

LIST OF STUDENT MEMBERS

S.NO	NAME OF THE STUDENT	YEAR
1	Abhinayaa M	III
2	Afrena A	III
3	Akash Kumar N	III
4	Akash N	III
5	Anandharaman V	III
6	Ariharan S	III
7	Arokia Anandu Prasanthu A	III
8	Arunaish R	III
9	Arunpradaap S	III
10	Ashwin Kumar S	III
11	Aswinkumar A	III
12	Aswitha R	III
13	Balakumaran A	III
14	Barani Dharan A	III
15	Callis Joseph E	III
16	Chandru A	III
17	Dhanaveeranesh J	III
18	Dhinish N	III
19	Dhiviya S	III
20	Ganesh C	III
21	Gokularamanane S	III
22	Gokulraj R	III
23	Gopika J	III
24	Gopikrishnan P	III
25	Gopinath B	III
26	Harinee P	III
27	Harini L	III
28	Hemachandasanam S	III
29	Herwin W	III
30	Ishwarya Lakshmi S	III
31	Iyyappan R	III
32	Abdul Saleem A	II
33	Abinaya V	II
34	Ajaiy R	II
35	Akash V	II
36	Anantha Soundarya E	II
37	Anbazhagan B	II
38		II

PHOTO GALLERY



Faculty from Electrical and Electronics Engineering Mr. J. Gnanavel explained about passive components to the first-year A and B section students and demonstrated how to make connections on a breadboard




The engineering clinic activity provides first-year EEE students with hands-on learning experiences, introducing them to practical applications of electrical engineering concepts and enhancing their problem-solving skills




The faculty of EEE department Mr.J.Gnanavel explains the fundamentals of single-phase and three-phase systems, highlighting their differences and applications in power distribution.



The faculty demonstrated the correct use of a multimeter for measuring voltage, current, and resistance in electrical circuits.


HOD/ EEE
(Dr.P.Jamuna)



Dean Academics
(Dr.S.Anbumalar)


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

"BASICS OF POWER SYSTEM "**Attendance Sheet****Date: 28.09.2024**

S.NO	NAME	Present/Absent
1.	BARANIDARAN N	Present
2.	HARISH M	Present
3.	AADESH K	Present
4.	ABARANA G	Present
5.	ABDUL ANEES M	Present
6.	ABISHEK R	Present
7.	AISHWARYA K	Present
8.	ANBUMANI K	Present
9.	ARAVIND V	Present
10.	ARUNACHALAM R	Present
11.	ARYA R	Present
12.	ASHOK R	Present
13.	ATCHAYA S	Present
14.	AYISHA SIDDIKA I	Present
15.	BARATH DHARSHAN B	Present
16.	BHADRINATH B	Present
17.	BHARANIDHARAN G	Present
18.	BHUVANESWARAN S	Present
19.	BUVANESHWARAN V	Present
20.	CHANDRA SHEKHARAN S	Present
21.	DEEPIKA C	Present
22.	DEVAKUMAR G	Present
23.	DHANALAKSHMI S	Present
24.	DINESH KUMAR S	Present
25.	DINESHKUMAR V	Present
26.	DIVAKAR S	Present
27.	DURGA J	Present
28.	GANESH S	Present
29.	GAUTHAM S	Present
30.	GOKUL S	Present
31.	GOKULADHARSHINI Z	Present
32.	HARISH K	Present
33.	ILAMSURUTHI V	Present
34.	JAYAA VARSHINY S	Present
35.	JAYAVARSHINI J	Present

36.	JEENA R	Present
37.	KAMESWARAN V	Present
38.	KAPPIASELVAN I	Present
39.	KARTHIK KISHORE P	Present
40.	KARTHIKA S	Present


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


Dean Academics
(Dr.S.Anbumalar)


Director cum Principal
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