



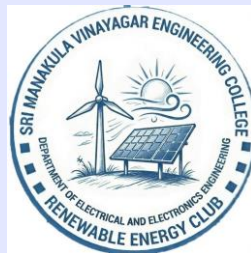
SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING**

RENEWABLE ENERGY CLUB

(Academic Year: 2023 to 2024)



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

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

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



Mohanlal
Executive Member



Jeeva Sudhan
Technical Member

LIST OF STUDENT MEMBERS`

S.NO	NAME OF THE STUDENT	YEAR
1	Swetha M	III
2	A. Sakthi	III
3	Arunprasath.S	III
4	Akash Sv	III
5	Poobathi	III
6	V. Arthi	III
7	Mohan Raj P	III
8	Badhma Priya M	III
9	Kalpanadevi	III
10	Devapriya D	III
11	Kriahna Kumar. R	III
12	Anusha.C	III
13	Savitha.M	III
14	Nithishkumar.K	III
15	Srisanthosh B	III
16	Mohamed Thofique	III
17	Kabilan S	III
18	Kirankumar S	III
19	Abdullah E K	III
20	Surendhar V	III
21	Keerthiga M	III
22	Danush Balaji S	III
23	Vighneshwar.V	III
24	Sivabalan G	III
25	Rozalan J	III
26	Vijaya Boopathy.S	III
27	Srinevan V	III
28	Sasidharan R	III
29	M.Latchiavasan	III
30	Karthikeyan.P	III
31	Kirubagaran P	III
32	Priyadharshini	II
33	Tom Tijo Edattukaran	II
34	Sanjai.S	II
35	Jothikrishnan K	II
36	Mohan Lal	II
37	Srinivasan S	II
38	S. Logesh	II
39	Pranav	II
40	Abdul Hafreed	II

PHOTO GALLERY

Hands-on demonstration of solar energy harnessing using PV panels Report**Date: 23.03.2024****Venue: Lecture Hall, EEE Department**


Mr. V. Karthi, Founder, Sri Annai Saraswathy Pvt. Ltd had described about the procedure for installation of an Inverter and erection of solar panel for domestic purpose to third year students of Electrical and Electronics Engineering on 23.03.2024


**Hands-on demonstration of solar energy harnessing using PV panels
Attendance Sheet**

Date: 23.03.2024

Sl.No	Student Name	Present/Absent
1.	ABDUL HAFREED H	Present
2.	ARCHANA R	Present
3.	DEVANATHAN A	Present
4.	DHIVYASHREE M	Present
5.	DINESH R S	Present
6.	ELAMPARUTHI K	Present
7.	GANDHAM NAGENDRA KARTHIK	Present
8.	GAYATHRY G	Present
9.	GLADSON JOSHUA PAULRAJ I	Present
10.	GUNAPRIYA S	Present
11.	GURUDEVAN L	Present
12.	HEMANATHAN D	Present
13.	JAYAKUMAR D	Present
14.	JEEVASUDHAN G	Present
15.	JOTHIKRISHNAN.K	Present
16.	KALAIYARASSI M	Present
17.	KARTHIKEYAN P	Present
18.	KARTHIKRAJA S.D	Present
19.	KASTHURI C	Present
20.	KAVEEYA K	Present
21.	KAVIARASAN M	Present
22.	KAVIYA S	Present
23.	KEERTHIRAJ. V	Present
24.	LOGESH.S	Present
25.	LOKESH N	Present
26.	LOKESHWARI D	Present
27.	MAHEYNDIRAN.S	Present
28.	MOHAN LAL S	Present
29.	MURUGAN.S	Present
30.	NIRMAL D	Present
31.	NIVEDHA G	Present
32.	PRANAV B	Present
33.	PRIYADHARSHINI A	Present
34.	RAGHUL R	Present
35.	RAHUL T	Present
36.	RAMANAKRISHNAN S	Present

37.	ROSHAN ARVIND. V	Present
38.	SABARIGIREESANE J	Present
39.	SABARISH R	Present
40.	SAI SIDDARTH T S	Present
41.	SANJAI S	Present
42.	SANTHANA KRISHNAN E	Present
43.	SATHISH FRANCIS XAVIER R	Present
44.	SIVAGANESH M	Present
45.	SONIYA V	Present
46.	SOWMYA.S	Present
47.	SREE VARDNI P	Present
48.	SRIDHASAN NAMBI	Present
49.	SRINIVASAN S	Present
50.	SUSANGATI SAMANTARAY	Present
51.	SWETHA S	Present
52.	THAMIZHARASAN. S	Present
53.	THILAK BASKARAN C M	Present
54.	TOM TIJO EDATTUKARAN	Present
55.	VENKATESHWARAN R	Present
56.	VIGNESHWARAN V	Present
57.	VIJAYALAKSHMI S	Present
58.	VINISHA LAXMI G	Present
59.	YOGARAJAN R	Present
60.	YOGESH .R	Present


HOD/ EEE
(Dr.P.Jamuna)


Dean Academics
(Dr.S.Anbumalar)


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

LED Lighting system Report

Date: 27.04.2024

Venue: Renewable Energy Lab



Mr. S. John Powl eloquently elucidated the fundamentals of solar energy and also highlighted how sunlight is converted into electricity through solar panels and also explained about LED lighting system for the students based on solar energy

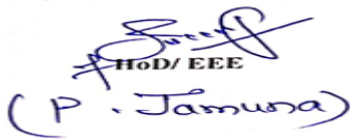
LED Lighting system

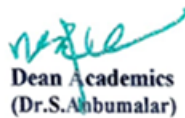
Attendance Sheet

Date: 27.04.2024

Sl.No	Student Name	Present/Absent
1.	ABHINAYAA M	Present
2.	AFRENA A	Present
3.	AKASH KUMAR N	Present
4.	AKASH N	Present
5.	ANANDHARAMAN V	Present
6.	AROKIA ANANDU PRASANTHU A	Present
7.	ARUNAISH R	Present
8.	ARUNPRADAAP S	Present
9.	ASHWIN KUMAR S	Present
10.	ASWINKUMAR A	Present
11.	ASWITHA R	Present
12.	BALAKUMARAN A	Present
13.	BARANI DHARAN A	Present
14.	CALLIS JOSEPH E	Present
15.	CHANDRU A	Present
16.	DHANAVEERANESH J	Present
17.	DHINISH N	Present
18.	DHIVIYA S	Present
19.	GANESH C	Present
20.	GOKULARAMANANE S	Present
21.	GOKULRAJ R	Present
22.	GOPIKA J	Present
23.	GOPIKRISHNAN P	Present
24.	GOPINATH B	Present
25.	HARINEE P	Present
26.	HARINI L	Present
27.	HEMACHANDASANAM S	Present
28.	HERWIN W	Present
29.	ISHWARYA LAKSHMI S	Present
30.	IYYAPPAN R	Present
31.	JAYALAKSHMI L	Present
32.	JEEVITHAA D	Present
33.	JENI K	Present
34.	KARMUKILAN A	Present
35.	KARTHIKRAJA S	Present
36.	KAVIMANJARI L	Present
37.	KEERTHANA G M	Present

38.	KUSHAAN ANAND	Present
39.	LALITH KUMAR S	Present
40.	LATHIKAA V	Present
41.	LAVANYA M	Present
42.	MADHAN A	Present
43.	MADHAN S	Present
44.	MADHAV V	Present
45.	MAHESH R	Present
46.	MATHAN M	Present
47.	MOHAMAD KASEEM M	Present
48.	MOHAMED ABDULKALAM K	Present
49.	MOHAMED HARUN RASHEED S	Present
50.	MONIKA D	Present
51.	MUKESHKUMAR R	Present
52.	MURUGAN T	Present
53.	NATHESH N B	Present
54.	NAVEENKUMAR D	Present
55.	NIVETHITHA B	Present


HOD/ EEE
(P. Tamura)


Dean Academics
(Dr.S.Abumalar)


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

