SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS • INDIA •
IETE
THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
सह वीर्यं करवावहै
IETE Student Forum (ISF)
JECRC FOUNDATION

DEPARTMENT OF ELECTRONICS AND COMMMUNICATION ENGINEERING

IETE STUDENT FORUM (ISF)

ANNUAL REPORT-2024-25

SUBMITTED BY

Dr.N. Saranya
Assistant Professor /IETE Student Forum Coordinator
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College
Puducherry-605 107

isf_ece_smvec

WWW.YOUTUBE.COM/@ISF_ECE_SMVEC

Table of CONTENTS

ABOUT THE INSTITUTION

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 a variety of undergraduate, postgraduate, and 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.

Vission :

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

Mission:

M1: Quality Education: To provide a 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 to create intellectuals with
new avenues.

M3: Employability and Entrepreneurship: To inculcate employability and entrepreneurial skills through value and skill-based training.

M4: Ethical Values: To instill a deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering is a top-notch department that offers high-quality UG, PG and PhD programs. The UG program B.Tech - Electronics and Communication Engineering is accredited by the National Accreditation Board, AICTE-New Delhi, and has a placement record of over 80%. The department's graduates are highly sought-after by employers in the Electronics and Communication sector. Our department contributes significantly to achieving the national objective of envisioning the world with a clear and deep commitment and a sincere desire to meet the expectations of a rising, fast-developing technology.

Vision

Facilitate academic excellence and research among Electronics and CommunicationEngineers to meet the global needs with high competence and ethical professionalism.

Mission

- Academic Excellence: To impart learning skills to meet the global challenges in the field ofElectronics and Communication Engineering.
- Research and Innovation: To provide excellence in research and innovation through multidisciplinary specialization.
- Employability and Entrepreneurship: To enhance inter and intra personal skills to make them employable and entrepreneurs.
- Ethics: To inculcate the significance of human values and professional skills to serve the society.

Programme Offered

- B.Tech - Electronics and Communication Engineering
- M.Tech - Electronics and Communication Engineering
- M.Tech - VLSI & Embedded Systems
- Ph.D - Electronics and Communication Engineering

ABOUT IETE STUDENT FORUM

The Institution of Electronics and Telecommunication Engineers (IETE), founded in 1953, is one of the leading professional societies in India. Guided by the vision of its founders and subsequent leaders, IETE has been dedicated to advancing science and technology in the fields of Electronics, Communication Engineering, Computer Science, Information Technology, and other related subjects.

The IETE Student Forum (ISF) at the Department of Electronics and Communication Engineering (ECE) of Sri Manakula Vinayagar Engineering College was inaugurated on October 18th, 2021, by Dr. P. Raja, Professor and Head of the Department of ECE. The ISF boasts a membership of 71 active students who are engaged in various professional activities. The main objective of the ISF is to enrich students' knowledge by planning and organizing technical programs, special lectures, workshops, seminars, symposia, and exhibitions, all designed to benefit the students.

Additionally, the ISF provides a common platform for students to exchange ideas on technical topics of interest, such as curriculum development, employment opportunities, higher educational pathways, and emerging technological trends. This platform facilitates discussions and collaborations that are crucial for students' professional growth and development.

Ultimately, the ISF acts as a catalyst for the overall growth of technical and professional skills in young students, ensuring they are well-equipped to meet the challenges of the ever-evolving technological world. This initiative highlights the institution's commitment to developing competent and confident professionals who will contribute significantly to their respective fields.

OBJECTIVES OF ISF

OPPORTUNITIES

Improving standard of Engineering Education and Counselling the students in the emerging new opportunities.

ENCOURAGING

Encouraging and motivating the outside Class room study/Workshops/projects/Seminars.

ORGANIZE

Increasing the student base and corporate membership of IETE. To plan, organize technical programs, Special lectures, Workshops, Seminars, Symposia, exhibitions for the benefit of students

IDEA EXCHANGE

To provide a common platform for students to exchange ideas in technical topics of interest, e.g., curriculum, employment, higher educational opportunities, emerging trends, etc.

INDUSTRY-ACADEMIA

To facilitate technical visits, project works, employment, contact with industries and academic institutions.

PROFESSIONAL SKILLS

Encourage team spirit and self-reliance among student members. ISF should be a catalyst for the overall growth in technical and professional skills for young students.

ISF OFFICE BEARER

CONVENOR-ISF

DR. P. RAJA

Professor & Head
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

COORDINATOR

DR. N.SARANYA

Assistant Professor
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF STUDENT PRESIDENT

J.AGALYA

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF STUDENT PRESIDENT

ANANTANARAYANAN.R

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF OFFICE BEARER

SECRETARY

HARINE.R

UG Student
II Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

SECRETARY

NIRANJAN.P

UG Student
II Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

JOINT-SECRETARY

SWATHI.S

UG Student
II-year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

JOINT-SECRETARY

YOKESHWAR.J

UG Student
II-Yeat
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF OFFICE BEARER

TREASURER

SANKARI.G

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

TREASURER

SAKTHIPRIYA.K

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ASST.TREASURER HEAD

DEEPAKRAJ.S

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ASST.TREASURER HEAD

RUBIKA SHAKTHI.P

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF OFFICE BEARER

TECHNICAL HEAD

DHARSINI.M.R

UG Student
II Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

TECHNICAL HEAD

MOHAMED SIDDIQ.R

UG Student
II Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ASST. TECHNICAL HEAD

AISHWARYA.V

UG Student
II- Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ASST. TECHNICAL HEAD

JAYASRI K

UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF OFFICE BEARER

ORGANIZING HEAD

YUVARAJ.K
UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

TREASURER

KOUSALYA.P
UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ASST. ORGANIZING HEAD

GURUNARAYANA.S
UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

PUBLICITY HEAD

DHIVYA LAKSHMI.V
UG Student
II-Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ISF OFFICE BEARER

PUBLICITY HEAD

SARAVANAN.G

UG Student
II Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

CREATIVE HEAD

SIVAHARI.S

UG Student
II Year
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

CREATIVE HEAD

NANDIKA VARDHINI.I

UG Student
III-A
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

ASST. CREATIVE HEAD

MEENA.A

UG Student
III-B
Department of Electronics and Communication Engineering
Sri Manakula Vinayagar Engineering College, Puducherry

Members

ACTIVE STUDENT MEMBERSHIP IN 2021-2025 BATCH: 18

Name of the Student	Year/Sem	Batch
ASHWATI KRISHNA	III/VI	2021-2025
BHAVYA.P	III/VI	2021-2025
DHARSHINI M R	III/VI	2021-2025
KAMALI.K	III/VI	2021-2025
KEERTHISHA.V	III/VI	2021-2025
KOWSALYA K	III/VI	2021-2025
MRIDHU MALYA K I	III/VI	2021-2025
NANDHINI M	III/VI	2021-2025
PAVITHRAKALA N	III/VI	2021-2025
PRETHICKSHA.R	III/VI	2021-2025
RITHIGA K	III/VI	2021-2025
SANKARI G	III/VI	2021-2025
SANTHIYA.B	III/VI	2021-2025
SHIRISH.S	III/VI	2021-2025
SNEKHA.S	III/VI	2021-2025
SUBATHRA S	III/VI	2021-2025
SWETHAA VB	III/VI	2021-2025
VANAJA.M	III/VI	2021-2025

Members

ACTIVE STUDENT MEMBERSHIP IN 2022-2026 BATCH: 53

S.No	Name of the Student	Year/Sem	Batch
1.	AAISHA SHAHANI	II/III	2022-2026
2.	AGALYA J	II/III	2022-2026
3.	AISHWARYA V	II/III	2022-2026
4.	ANANTANARAYANAN R	II/III	2022-2026
5.	ANUMITHA G	II/III	2022-2026
6.	BALAMURUGAN.J	II/III	2022-2026
7.	DEEPAKRAJ S	II/III	2022-2026
8.	DHARSHINI T	II/III	2022-2026
9.	DHAYANANDHAM.A	II/III	2022-2026
10.	DHIVYA LAKSHMI.V	II/III	2022-2026
11.	FOUZIYA BEGUM	II/III	2022-2026
12.	GUNAL P	II/III	2022-2026
13.	GURUNARAYANA S	II/III	2022-2026
14.	HARINI K	II/III	2022-2026
15.	HARINIVASINI.P	II/III	2022-2026
16.	ILAKIYA.J.G	II/III	2022-2026
17.	JAYASRI K	II/III	2022-2026
18.	JENIFER SANDIER.M	II/III	2022-2026
19.	KIRUTHIKA S	II/III	2022-2026
20.	KOUSALYA P	II/III	2022-2026
21.	KOWSALYA V	II/III	2022-2026
22.	KRITHIKA.S	II/III	2022-2026
23.	KUGAN T	II/III	2022-2026

Members

ACTIVE STUDENT MEMBERSHIP IN 2022-2026 BATCH: 53

S. No	Name of the Student	Year/Sem	Batch
1.	MANISHA K	II/III	2022-2026
2.	MEENA. A	II/III	2022-2026
3.	MOHAMED SIDDIQ.R	II/III	2022-2026
4.	MONICA MUTHU.P	II/III	2022-2026
5.	MONICA.S	II/III	2022-2026
6.	NANDHIKA VARDHINI	II/III	2022-2026
7.	NAVEENKAMAL C	II/III	2022-2026
8.	NIRANJAN.P.G	II/III	2022-2026
9.	PRATIBHA. P	II/III	2022-2026
10.	PRAVEEN KUMAR B	II/III	2022-2026
11.	PRAVEEN.D	II/III	2022-2026
12.	RAMYA SRI . T	II/III	2022-2026
13.	ROHITH KISHORE.P.C	II/III	2022-2026
14.	RUBIKA SAKTHI B	II/III	2022-2026
15.	SAKTHIPRIYA	II/III	2022-2026
16.	SANDHYAA K	II/III	2022-2026
17.	SANJAY P	II/III	2022-2026
18.	SARAVANAN.G	II/III	2022-2026
19.	SHALIDEEN K	II/III	2022-2026
20.	SHIVAHARI.S	II/III	2022-2026
21.	SHIVSHARAN N	II/III	2022-2026
22.	SUBHIKSHA K	II/III	2022-2026
23.	SWATHI S	II/III	2022-2026
24.	THEJESHWAANE J. S	II/III	2022-2026

Members

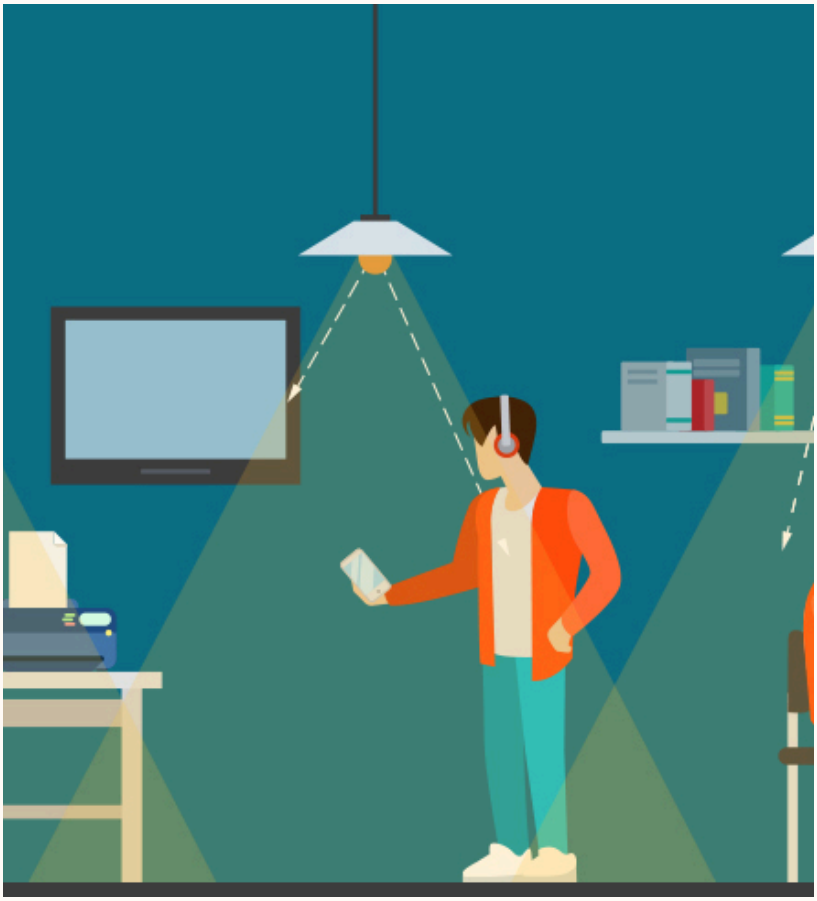
ACTIVE STUDENT MEMBERSHIP IN 2022-2026 BATCH: 53

S. No	Name of the Student	Year/Sem	Batch
25.	VINODH R	II/III	2022-2026
26.	VISHALINI. K	II/III	2022-2026
27.	YOKESHWAR J	II/III	2022-2026
28.	YUVANESH BALAJI M	II/III	2022-2026
29.	YUVARAJ K	II/III	2022-2026
30.	YUVASHREE.G	II/III	2022-2026

JENIFER SANDIER.M
III-A

Li-Fi Technology

Li-Fi (Light Fidelity) technology is a wireless communication technology that utilizes light to transmit data.The term was first introduced by Harald Haas during a 2011 TEDGlobal talk in Edinburgh.Li-Fi is a light communication system that is capable of transmitting data at high speeds over the visible light, ultraviolet, and infrared spectrums. In its present state, only LED lamps can be used for the transmission of data in visible light.



Light as a Medium: Li-Fi uses visible light or infrared light for data transmission instead of traditional radio frequencies used in Wi-Fi.

Speed and Capacity: Li-Fi has the potential to offer much higher data speeds than Wi-Fi, theoretically reaching speeds of several gigabits per second.

Security: Since light does not penetrate through walls like radio waves do, Li-Fi can be more secure from external eavesdropping. However, this also means it has limited range and requires direct line-of-sight between the transmitter and receiver.

Applications: Li-Fi can be used in environments where radio frequency interference is an issue, such as in hospitals, aircraft cabins, and nuclear power plants. It can also complement existing Wi-Fi networks to offload data traffic.

Li-Fi technology has various potential applications

Li-Fi can be used to provide high-speed internet access in indoor environments such as offices, homes, hospitals, and schools. It can complement existing Wi-Fi networks by offloading data traffic or providing connectivity in areas where radio frequency interference is a concern.

2.V

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

Department of Electronics and Communication Engineering

IETE Student Forum (ISF)
ANNUAL REPORT AY-2024-2025

List of Event Organized in 2024-2025

S. No	Name of the Event	Date of the Event
1	Career Guidance on Higher Education	10.10.2024
2	REEL to REALITY'-	9.9.2024
3	Word of Wonder Completion	16.9.2024
4	Training Session	21.09.2024
5	Hands on Training Program on Design of Basic Electronics Circuit Using Multisim	31.01.2025
6	Hands on Training Program on Electronics Circuit Design using MultiSim Simulator	21.02.2025
7	MOU signing Event	26.02.2025
8	Workshop on Making BOT using IoT	26.02.2025-27.02.2025

1. CAREER GUIDANCE ON HIGHER EDUCATION

A Career Guidance event was organized by the IETE Student Forum of the Electronics and Communication Engineering (ECE) Department **on** 10.10.2024. The session focused on providing students with insights into various career paths and industry expectations. A total of 71 participants attended and gained valuable guidance from the program.

2. WORD OF WONDER COMPLETION

IETE Students' Forum is organizing "Word of Wonder on 16.9.2024. The event aimed at challenging the students to express their creative thinking using AI tools. This is a unique opportunity to explore how Artificial Intelligence can enhance your creative expression. We encourage all students to actively participate and take advantage of this wonderful chance to expand their knowledge and professional skills.

3. REEL TO REALITY'-9.9.2024

REEL to REALITY', a presentation event where you can showcase Sci-fi concepts from over a wide variety of sci-fi movies and show us why that Reel!?, can be turned into a Reality on 9.9.2024 by ISF professional bodies.

4. TRAINING SESSION

The ISF (Institution of Scholars Forum) professional body recently organized an introductory event on basic electronics components for first-year students in sections A and B on 21.09.2024. The event aimed to familiarize students with fundamental components like resistors, capacitors, diodes, and transistors, essential for building foundational knowledge in electronics. The session included a hands-on demonstration, allowing students to explore the functionalities and characteristics of each component in real-time. Experienced faculty members provided guidance and insights, enhancing the students' practical understanding and sparking their interest in electronics engineering. This initiative by ISF marked a strong start for the first-year students, setting a solid foundation for their future studies in the field.

Photo Gallery

5. HANDS ON TRAINING PROGRAM ON DESIGN OF BASIC ELECTRONICS CIRCUIT USING MULTISIM

The IETE Students' Forum (ISF) Council Members conducted an engaging and interactive hands-on training session on Multisim Tool for Basic Electronics Circuit Design on 31st January2025. The session was attended by 51 students from I Year / II Semester / Section A, who actively participated in various practical exercises.

Photo Gallery

6. HANDS ON TRAINING PROGRAM ON ELECTRONICS CIRCUIT DESIGN USING MULTISIM SIMULATOR

A Hands-on Training Program on "Electronics Circuit Design using MultiSim Simulator" was conducted on 21.02.2025. The session was organized for I Year, II Semester, Section D students. A total of 52 students attended the program.

Photo Gallery

7. MOU SIGNING EVENT

The Memorandum of Understanding (MOU) signing ceremony between Sri Manakula Vinayagar Engineering College (SMVEC) and Praya Labs took place on the 26 th of Feburary 2025 in Puducherry. The Department of Electronics and Communication Engineering at Sri Manakula Vinayagar Engineering College, Puducherry, has taken a significant step towards fostering academia-industry collaboration.

8. WORKSHOP ON MAKING BOT USING IOT

The workshop titled '**BOT SERIES: Making Bots Using IoT**' was jointly organized by IETE Student forum and Robotics and Automation Club from the department of Electronics and Communication Engineering. The event aimed to provide students with hands-on experience in building and programming bots using Internet of Things (IoT) technologies. Also, the workshop focused on designing, building, and programming IoT-enabled bots for automation, smart control, and remote monitoring applications such that students can understand the challenges in designing in robots according to the application. Theworkshop fostered designing an IoT-enabled bot using Arduino/ESP32, Interfacing sensors and actuators, implementing wireless communication for remote control.