



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to Pondicherry University

Accredited by NBA & NAAC 'A' Grade

Kalitheerthalkuppam, Puducherry - 605107



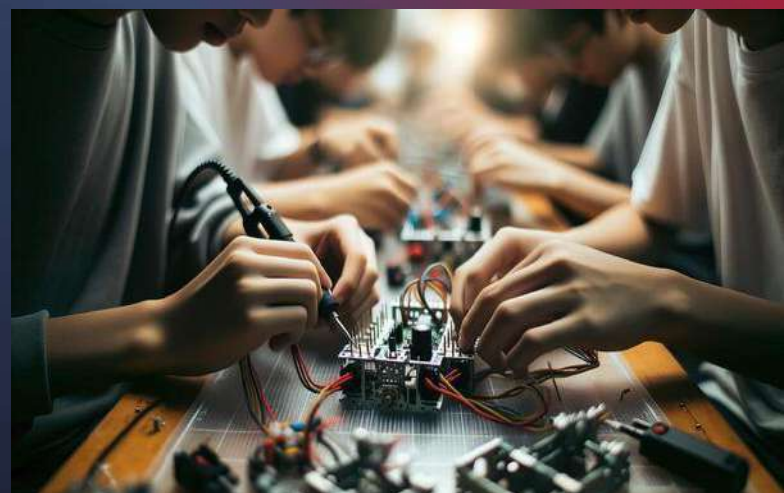
MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

An Autonomous Institution

ELECTROMAG

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MAGAZINE 2025-2026



ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) began its journey in 2008 with an initial intake of 60 students, which expanded to 180 by 2014. In 2012, the department introduced its M.Tech program with 18 seats to promote higher education. The department received NBA-AICTE accreditation in 2018, which remains valid until 2026, reflecting its commitment to academic excellence. Our institution also secured a prestigious NAAC A grade in 2022, further emphasizing quality education.

Recognized by Pondicherry University as a research center, the department offers opportunities for students to pursue doctoral degrees. The curriculum emphasizes semiconductor devices, electronic circuit design, and communication engineering while ensuring practical applications. Advanced laboratories, including R&D labs, simulation labs, microprocessor and microcontroller labs, and 3D printing facilities, provide students with hands-on learning experiences. Regular curriculum revisions keep pace with technological advancements, ensuring industry relevance. A well-equipped departmental library offers the latest books, journals, and magazines, along with internet connectivity. The department actively organizes seminars, workshops, and guest lectures to enhance students' technical expertise. To foster industry readiness, we maintain collaborations through MoUs with organizations such as Vaayusastra Aerospace IITM, Research Park, Kaivalya Tech Services, and MAVEN SILICON. These partnerships provide students with exposure to industry-oriented knowledge and real-world applications.

Faculty members employ innovative teaching methodologies to make complex subjects accessible and engaging. Students are encouraged to participate in research and development activities to enhance their analytical and problem-solving skills. The department also offers specialized training modules aligned with the country's vision for electronics manufacturing. Practical exposure is further strengthened through projects, internships, and industry interactions. Our computing infrastructure includes cutting-edge software and extensive resources for research and education. A campus-wide wireless internet network ensures seamless connectivity for students and faculty. Students are supported through mentoring, career guidance, and technical skill-building initiatives. The department's vision is to produce industry-ready engineers capable of contributing to technological advancements. With a focus on academic excellence and holistic development, we continue to nurture innovative minds and future leaders in the field of electronics and communication engineering.

VISION

To emerge as a center of excellence nurturing innovative engineers in Electronics and Communication technologies who can address global challenges through multidisciplinary approaches, sustainable solutions, and ethical leadership.

MISSION

1. Impart Quality Education in the field of Electronics and Communication Engineering through experiential learning, project-based curricula, and digital pedagogy to create industry-ready professionals.
2. Foster research temperament by establishing state-of-the-art laboratories and innovation centers focusing on emerging technologies.
3. Enhance industry collaboration to facilitate internships, live projects, and technology transfer initiatives while promoting entrepreneurial mindset among students.
4. Develop socially conscious engineers capable of applying Electronics and Communication technologies for sustainable development and societal welfare.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

PEO1

Professional Excellence: Graduates will be employed with professional competency in Electronics and Communication, demonstrating expertise in emerging technologies.

PEO2

Research and Innovation: Alumni will excel in research initiatives and entrepreneurial ventures and lead in technological innovation in emerging Electronics and Communication domains.

PEO3

Sustainability: Develop and implement sustainable solutions in Electronics and Communication Engineering addressing global challenges while ensuring environmental responsibility and societal welfare.

PEO4

Ethics and Leadership: Graduates will demonstrate ethical leadership in engineering teams while pursuing professional growth and contributing to the field through mentorship.

Drawing



By Chandraboosan.D
II ECE



By Chandrabhoosana.D
II ECE-B



Ragul K
II ECE



By R.Priyadharshini
II ECE



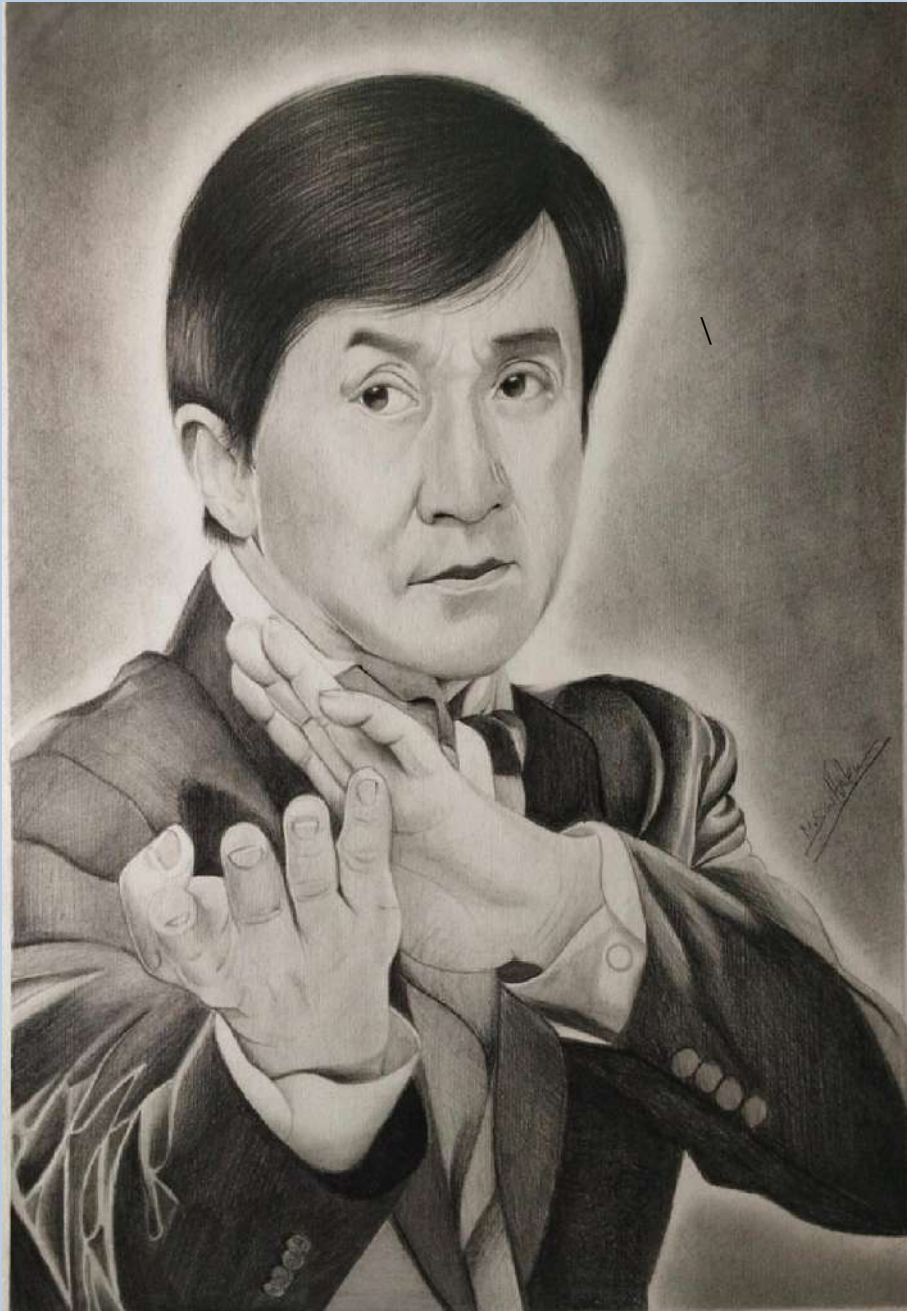
By M.Santhakumar
III ECE - B



By S.Ashwin
II ECE



By G.Vishwa
II ECE



By M.Santhakumar
III ECE

STUDENT ARTICLE – 1

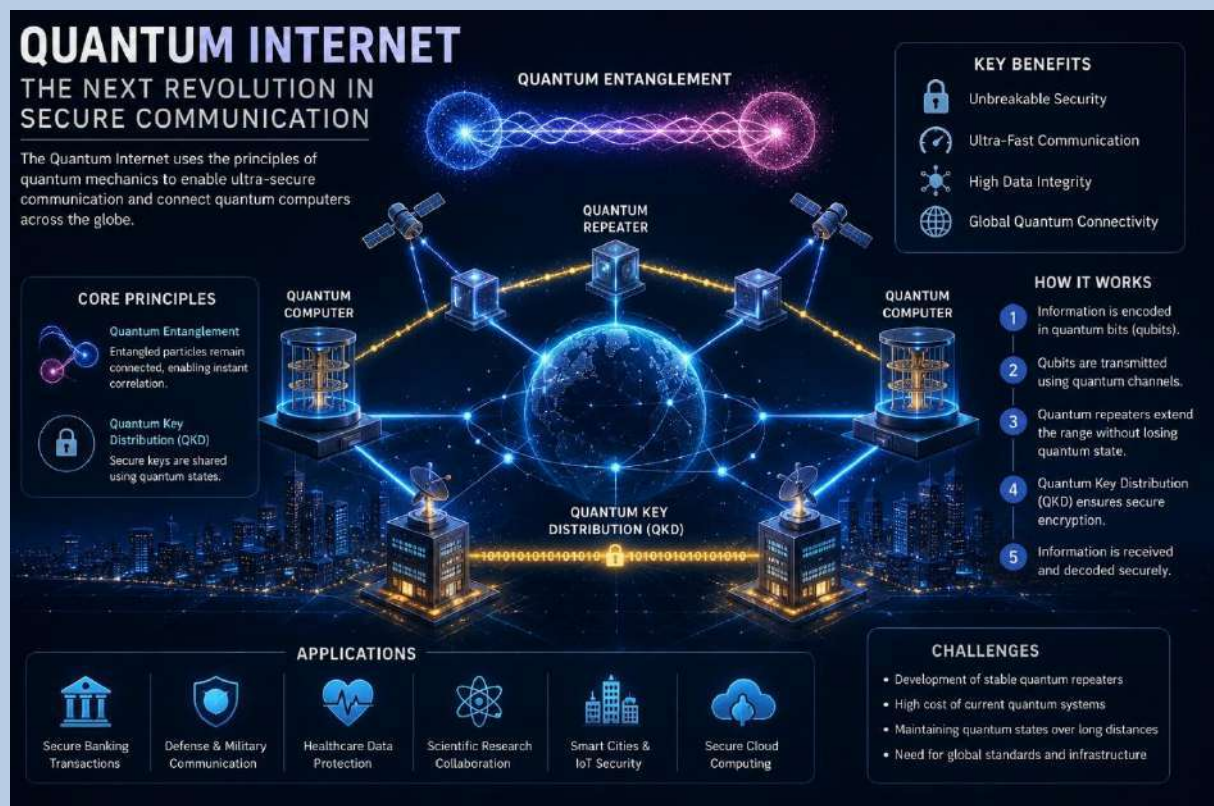
Quantum Internet: The Next Revolution in Secure Communication

The future of communication is moving beyond faster internet speeds toward an entirely new concept known as the **Quantum Internet**. Unlike today's internet, which transmits information using electrical or optical signals, the Quantum Internet uses the principles of quantum mechanics to exchange information through quantum bits (qubits). This revolutionary technology promises virtually unbreakable security, ultra-fast communication, and new possibilities in computing and scientific research.

One of the key concepts behind the Quantum Internet is **quantum entanglement**, where two particles remain connected regardless of the distance between them. A change in one particle instantly affects the other, allowing secure information transfer. Another important principle is **Quantum Key Distribution (QKD)**, which enables encryption keys to be exchanged securely. If an attacker attempts to intercept the key, the quantum state changes immediately, alerting the communicating parties. This makes eavesdropping nearly impossible and offers a level of cybersecurity that classical communication systems cannot achieve.

Quantum Internet technology has enormous potential in various sectors. Financial institutions could use it to protect banking transactions from cyberattacks, while defense organizations could secure military communications. Hospitals could safely transmit sensitive patient records, and researchers across the globe could collaborate using quantum computers connected through quantum networks. The integration of quantum communication with future **6G wireless systems** is also expected to provide ultra-secure communication for autonomous vehicles, smart cities, and industrial automation.

Despite its promising future, several challenges remain before the Quantum Internet becomes a reality. Scientists must develop stable quantum repeaters capable of transmitting qubits over long distances without losing information. Maintaining quantum states requires extremely controlled environments, making current systems expensive and difficult to deploy. Moreover, building a global quantum communication infrastructure requires international collaboration, standardization, and significant technological advancements.



ANAND R
III ECE - B

STUDENT ARTICLE – 2

Intelligent Metasurfaces: Shaping the Future of 6G Wireless Communication

Future wireless networks require higher speed, lower latency, and reliable communication in complex environments. One of the most exciting technologies addressing these challenges is the **Reconfigurable Intelligent Surface (RIS)**, also known as an Intelligent Metasurface. Instead of simply transmitting signals, intelligent surfaces can actively control, reflect, and redirect electromagnetic waves, improving wireless communication without increasing transmission power.

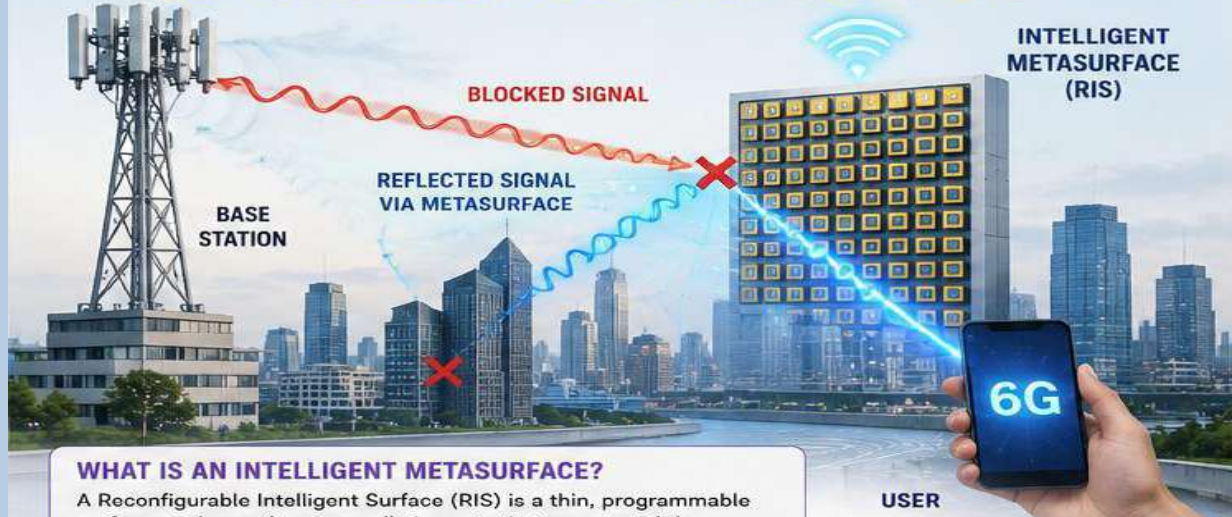
A Reconfigurable Intelligent Surface consists of hundreds or thousands of tiny programmable elements integrated onto a flat surface such as walls, buildings, or ceilings. Each element can independently adjust the phase and direction of radio waves. Using Artificial Intelligence, the surface continuously analyzes the surrounding environment and optimizes signal propagation. This technology minimizes signal blockage, reduces interference, and improves coverage, especially in dense urban areas and indoor environments.

RIS technology is expected to become a key component of **6G communication systems**. It can provide seamless connectivity for autonomous vehicles, industrial robots, smart factories, and Internet of Things (IoT) devices. Instead of deploying additional base stations, network operators can install intelligent surfaces to enhance signal quality efficiently. This reduces infrastructure costs while increasing network capacity and energy efficiency.

Another significant advantage of intelligent metasurfaces is their contribution to green communication. Since RIS reflects existing signals rather than generating new ones, power consumption is significantly lower than conventional relay stations. Researchers are also exploring self-powered intelligent surfaces that harvest energy from solar panels or ambient radio-frequency signals, making future communication systems more sustainable.

However, implementing RIS technology presents several challenges. Designing programmable materials with high efficiency, developing real-time control algorithms, and integrating intelligent surfaces with existing wireless infrastructure remain active research areas. Standardization and interoperability will also play an important role in large-scale deployment.

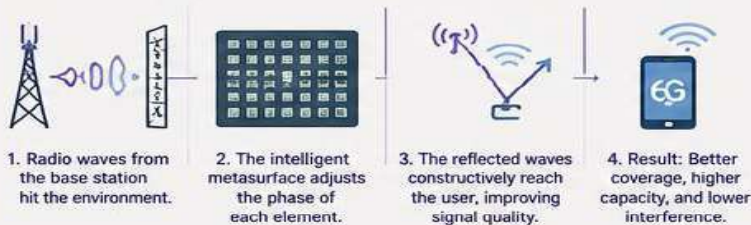
INTELLIGENT METASURFACES SHAPING THE FUTURE OF 6G WIRELESS COMMUNICATION



WHAT IS AN INTELLIGENT METASURFACE?

A Reconfigurable Intelligent Surface (RIS) is a thin, programmable surface made up of many small elements that can control the phase, amplitude, and direction of incident radio waves in real time.

HOW IT WORKS



KEY BENEFITS

- Enhanced signal coverage in indoor and blocked areas
- Higher network capacity and data rate
- Energy efficient communication
- Cost-effective solution compared to adding more base stations
- Supports 6G applications like holographic calls, smart cities, and industrial automation

APPLICATIONS IN 6G AND BEYOND



Smart Cities



Autonomous Vehicles



Industrial IoT



Extended Reality (XR)



Drones and UAV Networks



Disaster Management

DEEPAK P
III ECE - B

STUDENT ARTICLE – 3

TinyML: Bringing Artificial Intelligence to Microcontrollers

Artificial Intelligence has traditionally required powerful computers and cloud servers to process large amounts of data. However, a new technology called **TinyML (Tiny Machine Learning)** is changing this approach by enabling machine learning models to run directly on low-power microcontrollers and embedded devices. TinyML combines embedded systems and AI, making intelligent devices faster, more secure, and energy efficient.

TinyML allows machine learning algorithms to execute on microcontrollers such as **ARM Cortex-M**, **ESP32**, and **STM32**, which have limited memory and processing power. Instead of sending sensor data to cloud servers, TinyML processes information locally on the device. This significantly reduces communication delay, improves privacy, and lowers power consumption. As a result, TinyML is becoming an essential technology for wearable electronics, healthcare monitoring, smart agriculture, industrial automation, and environmental sensing.

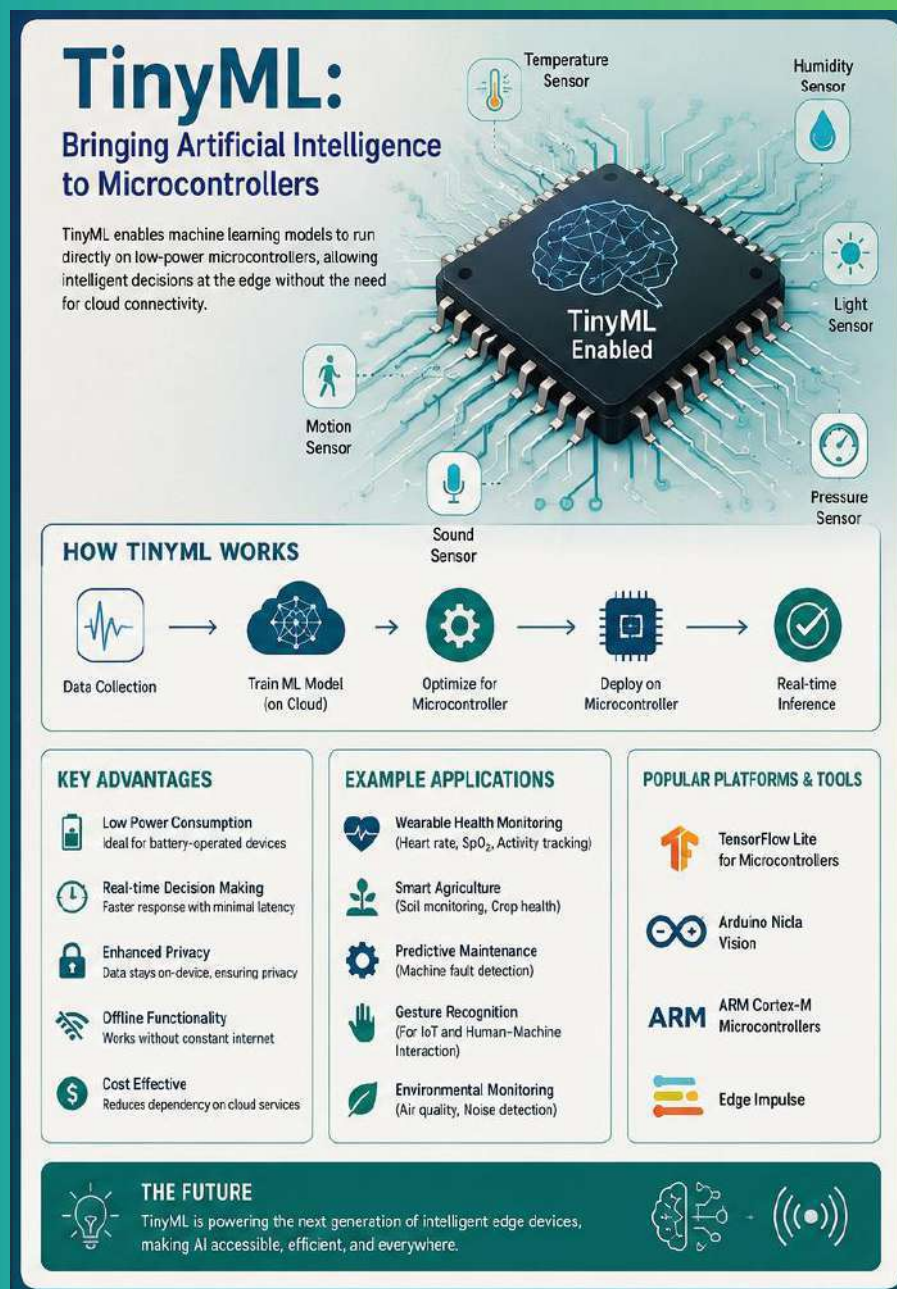
One of the biggest advantages of TinyML is **real-time decision-making**. For example, a wearable health monitoring device can continuously analyze heart rate and oxygen saturation without requiring internet connectivity. Similarly, industrial sensors can detect machine failures instantly, reducing downtime and maintenance costs. In agriculture, TinyML-enabled sensors can monitor soil conditions and automatically optimize irrigation, improving crop productivity while conserving water.

The rapid development of AI-optimized hardware accelerators, low-power processors, and efficient neural network models has accelerated the adoption of TinyML. Frameworks such as **TensorFlow Lite for Microcontrollers** enable developers to deploy AI applications on devices consuming only a few milliwatts of power. These advancements make intelligent embedded systems affordable and practical for large-scale deployment.

Despite its advantages, TinyML faces several challenges. Limited memory, processing capability, and battery life restrict the complexity of machine

learning models that can be deployed. Developers must optimize algorithms carefully to achieve high accuracy while maintaining low computational requirements. Ensuring security and protecting AI models from cyber threats are also important research areas.

TinyML is expected to become one of the most influential technologies in future embedded systems



RAGUL J
III ECE - B

Poems

WOMEN EMPOWERMENT

She walks in with fire in her spine,
not asking for permission to
shine.

Her voice, once told to whisper
low,

now builds bridges, starts the flow.

She is the question and the answer too,
the late-night plan that breaks through.

Hands that heal, minds that create,
she rewrites rules and sets her fate.

No glass can hold her, no ceiling stays,
she climbs with doubt turned into praise.

Mother, leader, artist, guide,
she carries storms and calms the tide.

When they say "you can't," she plants a seed,
waters it with every bold deed.

Her strength is not a borrowed light,
it is her own, and it burns bright.

So let her rise, let her lead, let her speak, let her succeed.

The world gets better when women are free.

By

Sudharshana.S

II ECE-B

தாய்மை

அடுப்பங்கரையில் சுடும் வெயிலும்
உனக்காக சோறு ஆக்கும் கைகள்
உன் காய்ச்சலில் இரவெல்லாம் விழித்திருக்கும் கண்கள்
அவைதான் அம்மா.விழுந்தால் தூக்கி விடும் தோள்
அழுதால் துடைத்து விடும் சேலைத் தலைப்பு
பசிக்குது என்ற ஒரு வார்த்தைக்காக
உலகையே சமைத்து வைக்கும் மனம்.நீ பேசும் முதல் வார்த்தைக்கு
ஆயிரம் முறை கைதட்டியவள்
நீ தோற்றாலும் "பரவால்லடா" என்று
முதுகை தட்டிக் கொடுப்பவள்.காசு கேட்டால் இல்லை என்றாலும்
உன் ஆசைக்காக சேமித்து வைப்பவள்
திட்டுவாள், அடிப்பாள், ஆனால்
உலகமே எதிர்த்தாலும் உனக்காக நிற்பவள்.அவள் கடவுள் இல்லை
ஆனால் கடவுளுக்கு பிறகு அவள்தான்.
அம்மா என்ற மூன்று எழுத்தில்
ஒரு வாழ்க்கையே அடங்கி இருக்கிறது.

யாழினிகோமதி. சா
II ECE-B

Friendship

A friend is the light that never fades away, Standing beside you through every stormy day.

Not bound by blood, yet family at heart,

A bond so strong, no distance can tear apart.

They laugh with you in moments of delight, And hold your hand through the darkest night.

They celebrate your victories as their own, And help you rise when your strength has flown.

True friendship asks for nothing in return, Only trust, respect, and hearts that never turn.

It grows with memories, smiles, and time, Like a beautiful melody without a rhyme.

A real friend is life's greatest treasure to keep, A promise of loyalty, steady and deep.

For in every chapter, through joy and strife, Friendship remains the masterpiece of life.

Anand R

III ECE – B

The Days We Call College

Within these walls, our dreams took flight, We chased our goals from morning till night.

Every classroom held a lesson to learn, Every failure gave us strength in return.

Friends became family along the way, Turning ordinary moments into memories
each day.

Laughter echoed through every hall, Together we stood, no matter how small.

Assignments, exams, and endless fun, Countless stories woven into one.

Though time may lead us far apart, These memories will live in every heart.

College is not just a place we knew,

It's where we discovered ourselves and grew. Forever, these days will remain our brightest view.

RAGUL J

III ECE - B

She

She is strength wrapped in kindness,
A heart that blooms through every season.
She carries dreams with fearless grace, And paints hope on every face.
She rises after every fall, Standing proud, inspiring all.
With courage brighter than the sun,
She proves that nothing is impossible once begun.
Her voice can heal, her spirit can lead, She plants the seeds of every good deed.
She is a daughter, a sister, a friend, A love so deep it knows no end.
She is not just part of the story—She is the author of her own glory.
A woman, forever powerful, beautiful, and free.

YUVARAJ A
III ECE - B

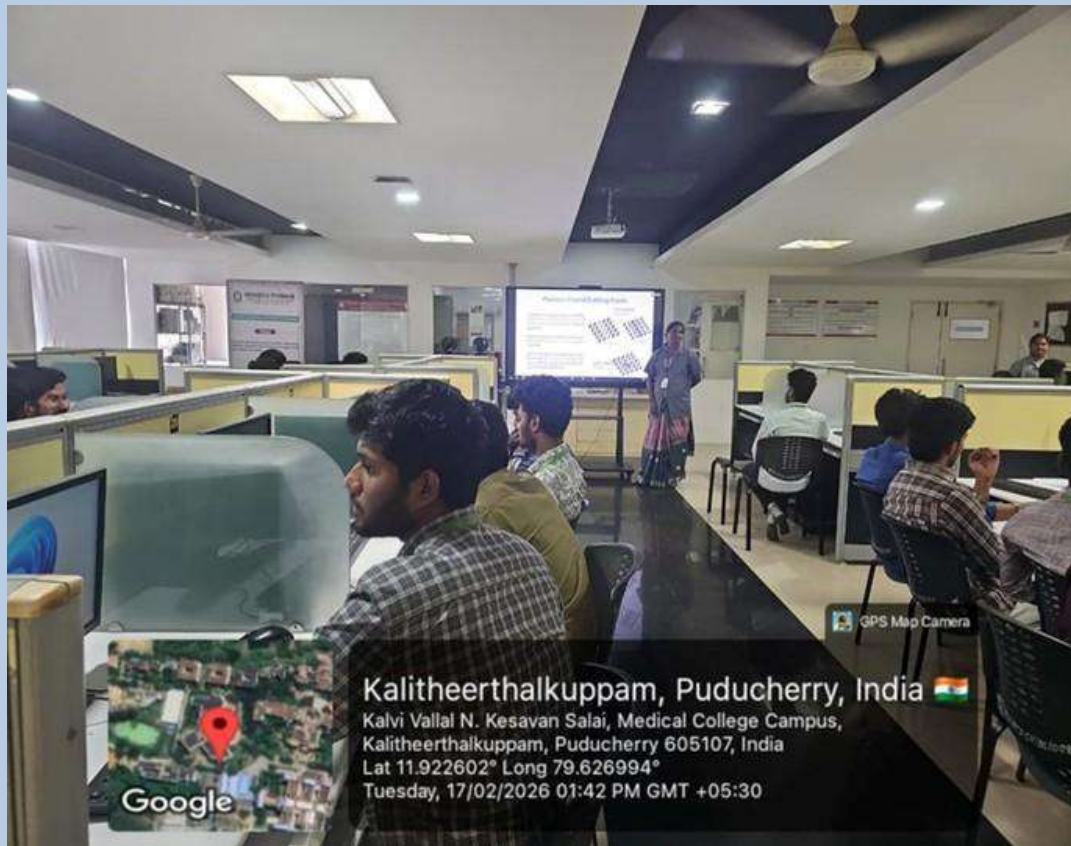
ECE 25-26 EVEN SEMESTER

VALUE ADDED COURSE

Research Tools in Optical Communication



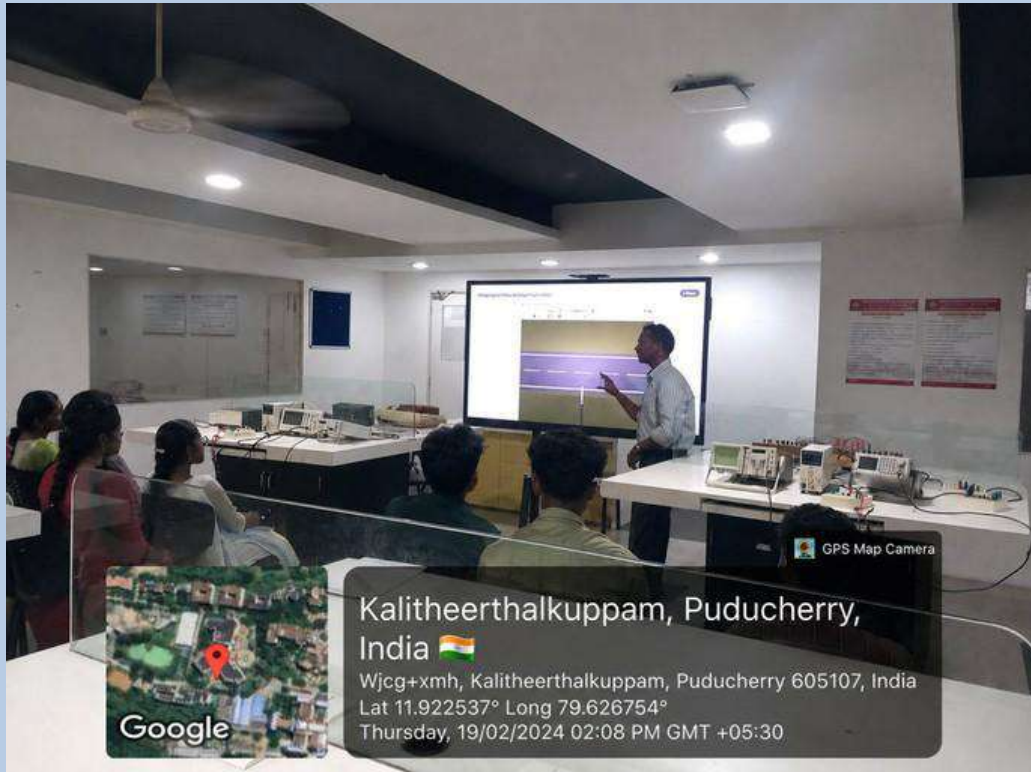
Day 1 – Dr. Semmalar, handled a session on the topic of “Erbium-Doped Fiber Amplifier (EDFA) with Pumping Configurations” for the III year ECE students in the Simulation Lab, MVIT (16 Feb 2026).



Day 2 – Dr. M. Sivasindhu, handled a session on the topic of “Photonic Crystal Building Blocks and Nano-Photonic Structures” for the III year ECE students in the Simulation Lab, MVIT (17 Feb 2026).



Day 3 – Dr. M. Sivasindhu, handled a session on the topic of “Optical Photonic Network Simulation using Rsoft Research Tool” for the III year ECE students in the Simulation Lab, MVIT (18 Feb 2026).



Day 4 – Mr. Sathyamoorthy, handled a session on the topic of “Optical Fiber Signal Propagation and Simulation Overview” for the III year ECE students in the Simulation Lab, MVIT (19 Feb 2024).

Workshop



Workshop Conducted for III year ECE students on CISCO PACKET TRACER dated
on 02.03.2026 by Dr. R. Sofia, AP/ECE

Drone Technology: Design, Simulation and Flight Practice



A two-day hands-on workshop on Drone Technology was conducted on 19th and 20th March 2026 for II Year ECE students, in association with TS Robotics, Chennai. The workshop provided practical exposure to drone design, assembly, and operation, enhancing students' technical skills and industry awareness. The event was coordinated by Mr. S. Mohanraj, Assistant Professor, Department of ECE.

Professional Development program on Designing Multi-disciplinary and Interdisciplinary Courses

Day 1 : Fundamentals of Multidisciplinary and Interdisciplinary Education



Day 2: Designing Interdisciplinary Courses and Curriculum



Day 3: Pedagogical Strategies for Interdisciplinary Teaching



Day 4: Assessment and Evaluation in Interdisciplinary Courses



Day 5: Implementation, Challenges and Future Directions





Workshop Conducted for III year ECE students on Applied Image Processing for Real-World Applications Using Python dated on 06.05.2026 by Dr. R. Sofia, AP/ECE

GUEST LECTURE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING
EVEN Semester - 2026

PHOTOS

IEEE Sponsored Guest Lecture titled, “Small Satellites”, Big Impact: Innovations and Future Trends in Nanosatellite Technology



Department of ECE organized a IEEE Sponsored Guest lecture on “Small Satellites, Big Impact: Innovations and Future Trends in Nano Satellite Technology “with the resource person, Dr Jayakumar Venkatesan, Founder & CEO, Harpy Aerospace Pvt Ltd, Chennai, for the target audience (IV Year VIII Sem) ECE students on 15-12-2025 at the Ground Floor Auditorium.

Guest Lecture



Department of ECE organized a guest lecture on “*Agentic AI: Building Autonomous AI Agents for Real-World Tasks*” with the resource person, Dr. K. Vinoth, Assistant Professor, SRM Institute of Technology, for the III Year/VI Sem ECE students on 24-01-2026 in the AV Room.

Guest Lecture



Department of ECE organized a guest lecture on **“The Endless Embedded–AI Loop: Technology Driving Technology”** with the resource person Mrs.Vaishnavi Dhinesh

Founder & CEO,Towards Technology Pvt Ltd, Ariyalur for III year VI sem ECE students on 20/03/2026 in the AV room.



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**Organizes
A Guest Lecture**

**Understanding Wi-Fi Networks:
From Protocols to Practice**

Resource Person



Mr. Nishanth Radja Mohane

**Senior QA Specialist,
Espressif,
Bangalore.**

Mr. Nishanth Radja Mohane

Senior QA Specialist
Espressif
Bangalore

Date: 31/01/2026

Venue: AV room

Time: 10.30 am



Guest Lecture titled “Understanding WiFi networks from protocols to practice” by Mr. Nishanth Radha Mohane, Senior QA Specialist, Espressif, Bangalore, dated on 31.01.2026 for ECE students

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - January 2026 to May 2026

Photos

Industrial Visit



III ECE Students Visited GodData Pvt. Ltd, Kerala for Industrial Visit, Kerala.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - January 2026 to May 2026

An industrial visit was organized for the **II Year Electronics and Communication Engineering (ECE)** students to **Eaton Power Quality Pvt. Ltd** on **10th March 2026**. The primary objective of this visit was to provide students with practical exposure to **Power Electronics and Control Systems** and to bridge the gap between theoretical knowledge and real-world industrial applications.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

EVEN Semester - January 2026 to May 2026

Photos

**Industrial Visit 12/02/2026
Godrej Consumer Products Ltd**

II ECE Students attended Godrej Consumer Products Ltd Industrial Visit

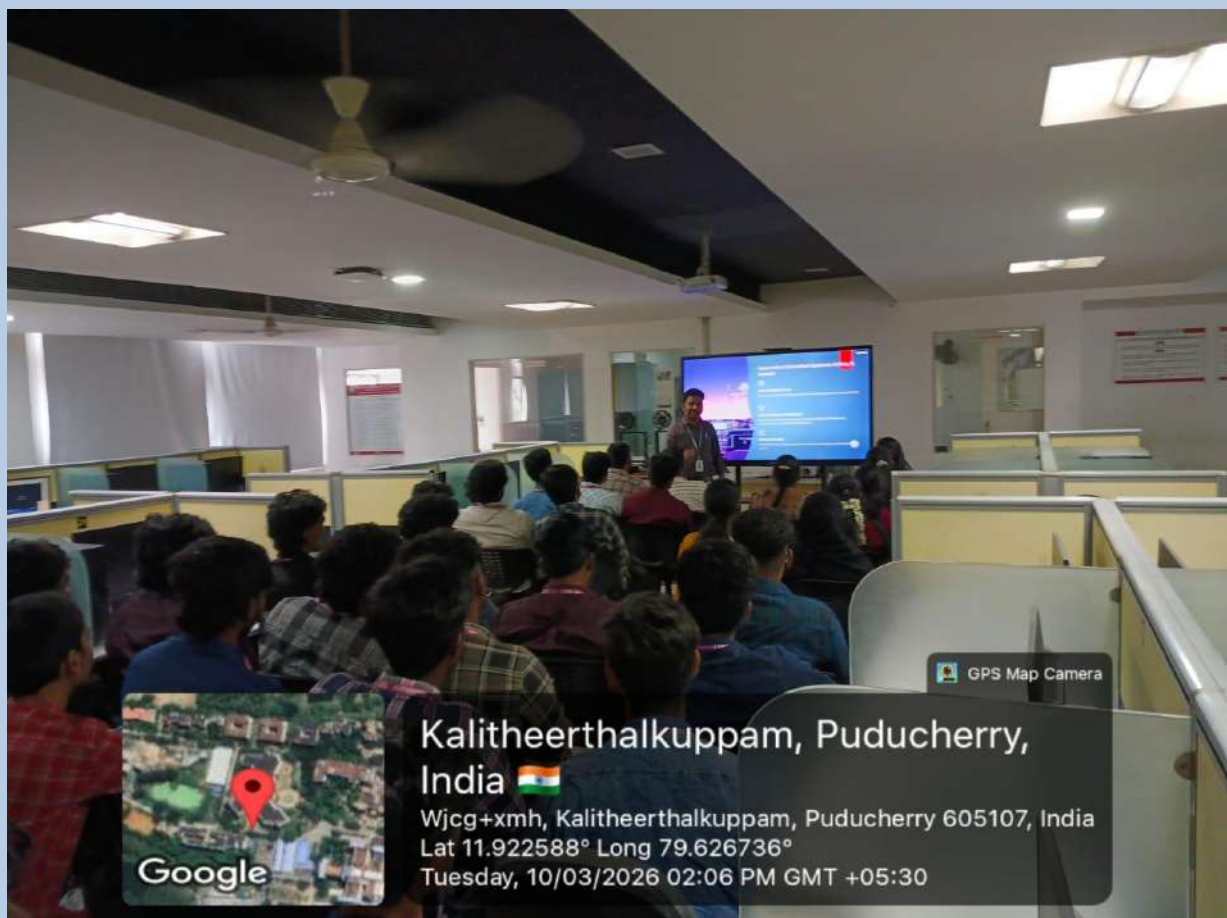
Industrial Visit to Soften Technologies on 21.02.2026 for II year ECE students

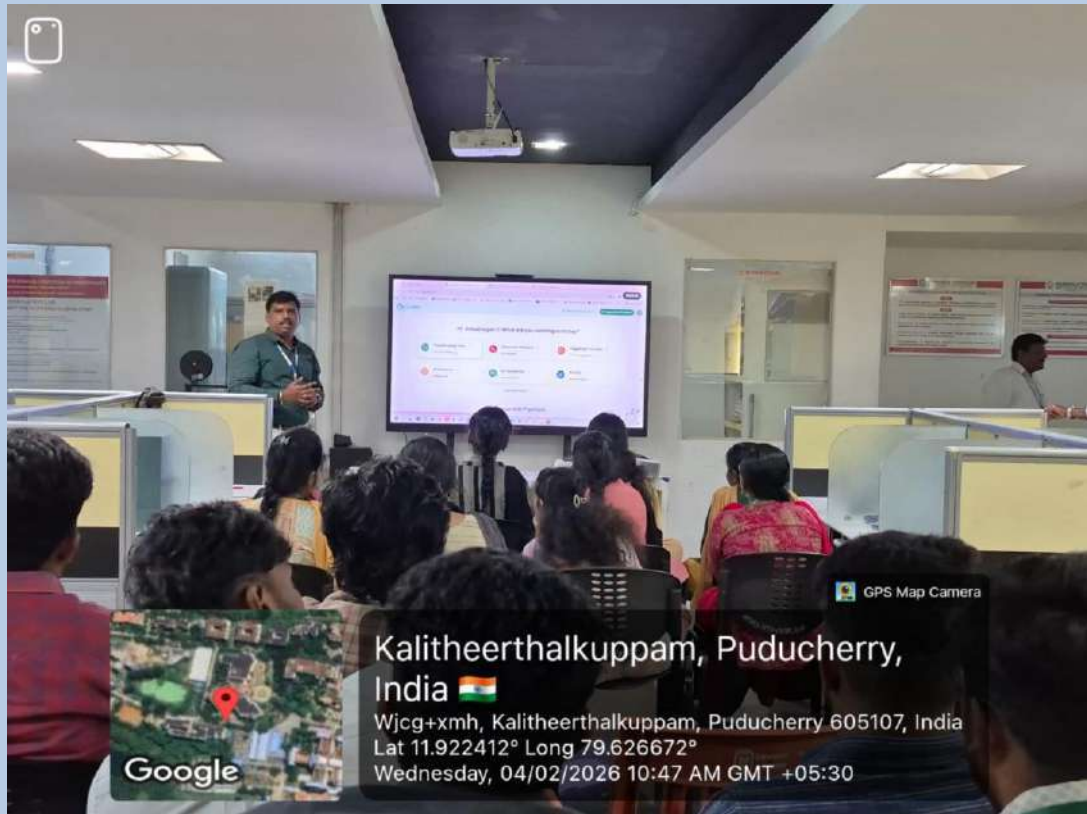


Photos

RESEARCH METHODOLOGY

Our department conducted Research Methodology Seminar on “Research Foundations in Embedded Systems” by the internal faculty speaker Mr.S.Mohanraj Assistant Professor, Department of Electronics and Communication Engineering, Manakula Vinayagar Institute of Technology, Puducherry for our II year ECE students on 10th March 2026.





Department of ECE organized research methodology on “How to Write a Research Paper for Students” with the resource person, Mr. S. Anbazhagan, Assistant Professor, Manakula Vinayagar Institute of Technology, for the IV Year/VIII Sem ECE students on 02-02-2026 in the Simulation Lab.

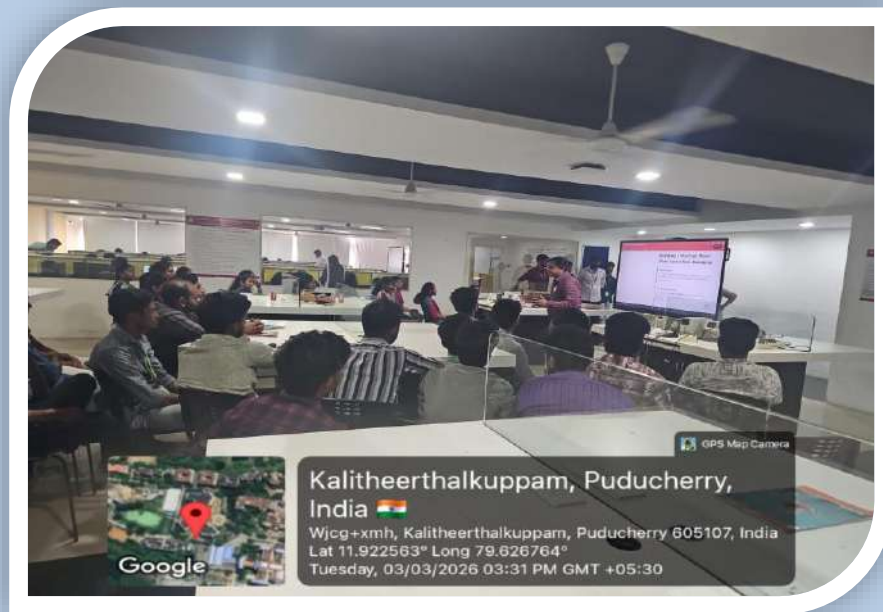
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - January 2026 to May 2026

Photos

EDP

Startup Planning and Entrepreneurial Skills Program



IPR Awareness for Engineers in Embedded Design

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - January 2026 to May 2026

Photos

Full Stack Technology



Mr. Kathiravan T, Technical Lead from Image Creative Education, Puducherry, delivered an insightful session to **II Year Electronics and Communication Engineering students** on **Full Stack Technology**. He shared valuable insights on industry-oriented programming practices, career planning, and skill development required for aspiring full stack developers.

The session emphasized practical application development, real-time project exposure, and current industry trends, enabling students to understand the expectations of the software and web development industry. The lecture motivated students to pursue skill-based learning, continuous upskilling, and professional growth in full stack and related technology domains.

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING
EVEN Semester - 2026**

**Organizes a IETE Sponsored
CAREER GUIDANCE PROGRAM**

on

“Job Opportunities in Aviation and Automation in Personal Air Mobility”

Date: 5.1.2026- PHOTOS



Department of ECE, organized a IETE Sponsored Career Guidance Program on ‘*Job Opportunities in Aviation and Automation in Personal Air Mobility*’, with the Resource Person Mr. Suvadhanan T., Founder & CEO of Sacdeeil Aerospace Pvt. Ltd., Navarkulam, Tamil Nadu, India. For the target audience (II year /IV sem and IV year /VIII Sem) ECE students on 5-1-2026 in the Audio-Visual Room

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - 2026

**Details of the ISTE Sponsored Alumni Meet titled
“Fostering Lifelong Engagement for Career Growth”**

PHOTO



Department of ECE, RF & Optical Communication Faculty Specialization Group organized a ISTE Sponsored Alumni Meet on “Fostering Lifelong Engagement for Career Growth” with the resource person Mr. Santhosh Kumar-TCS- Pune, Mr. Aswin- Rani Madras Pvt Ltd, Thirubuvanai, Puducherry, Ms. Rajasri, Twilight IT Solutions, Reddiarpalayam, Mr. Saravanan- Business for Target Audience (II year/ IV sem) ECE students on 12-01-2026 in the Venue: Lecture Hall 207.



Department of ECE organized a Alumni meet on “Artificial Intelligence” with the resource person Mr.S.Arivukkarasu, Senior System Engineer, Nat West, for III/VI SEM ECE students on 10.01.2026 in the Lecture Hall 201



Department of ECE organized a Alumni meet on “Supply Chain Management” with the resource person Mr.S.Sivanesh, Relocation Specialist, HCL Technologies, for III/VI SEM ECE students on 10.01.2026 in the Lecture Hall 201.

DEPARTMENT OF ELECTRONICS AND COMMUNICAITON ENGINEERING

Organizes

Alumni Meet

on

INDUSTRY INSIGHTS AND CAREER PATHWAYS

Date: 09.02.2026



Mr. Jayachandran, Research and Development Engineer, Schopiq Automation, and Mr. Ilanchezhian, Associate Embedded Developer, Aerobiosys Innovation Private Limited (2019–2023 Batch alumni), jointly addressed II Year ECE students on the topic “Industry Insights and Career Pathways” on 09.02.2026. The session was organized by the Department of Electronics and Communication Engineering.



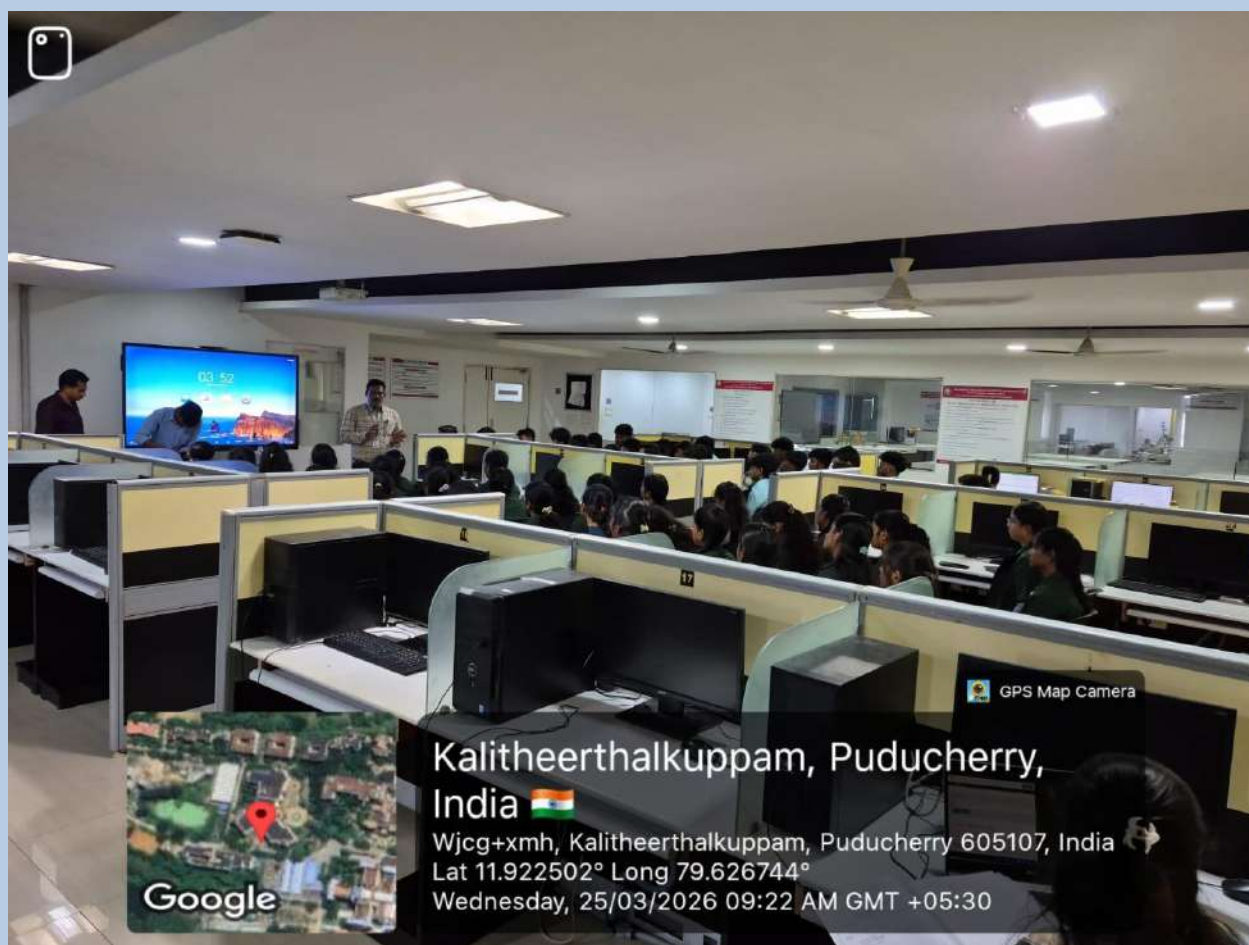
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - January 2026 to May 2026

Photos

QUALITY IMPROVEMENT PROGRAMS

Quality Enhancement in Printed Circuit Board (PCB) Fabrication through Etching and Milling



Mr. Jagan. J, Chairman, Vector Solutions, Puducherry, delivered a Quality Improvement Program on the topic of “Quality Enhancement in Printed Circuit Board (PCB) Fabrication through Etching and Milling” for the ECE faculties and students in the Simulation Lab, MVIT (25 March 2026).



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EVEN Semester - January 2026 to May 2026
Photos
 Quality Metrics in Emerging Trends of Image Processing

Department of ECE organized a Quality improvement program, on “Quality Metrics in



Emerging Trends of Image Processing” with the resource person Ms. V. Sofia Chandrasekar, Team Leader –United technology, Chennai for II Year / IV Sem ECE students on 02.02.2026 in the BMI Laboratory.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVEN Semester - January 2026 to May 2026

Photos

QUALITY IMPROVEMENT PROGRAMS

IEEE SPONSORED QUALITY IMPROVEMENT PROGRAM

on

“QUALITY ENHANCEMENT IN EMBEDDED SYSTEM ENGINEERING”



Department of ECE organized a IEEE sponsored Quality improvement program,

on “Quality Enhancement in Embedded System Engineering” with the resource person Dr.N.Praveena, Associate Professor Gr.-II, Department of Computer Science and Design, R.M.K Engineering College, Chennai, for II Year / IV Sem ECE students on 24.03.2026 in the CISCO Laboratory



A Yoga Awareness Program was organized for the **II Year Electronics and Communication Engineering (ECE)** students on **12th February 2026** with the objective of creating awareness about the importance of yoga in maintaining physical health, mental well-being, and stress management



Department of ECE organized a awareness session on “Physical Health in a Digital Age” with the resource person **Mrs.Surya**, Assistant Professor, **Sri Manakula Vinayagar Engineering College** for **II/IV SEM ECE** students on **09.01.2026** in the auditorium.

SDG ACTIVITIES



Department of ECE organized an expert lecture on “An Outlook on Marine Pollution and Pollution Prevention at Sea” with the resource person Mr. Baranidaran Ramasamy, Chief Engineer, Synergy Maritime Ltd, Chennai. for III/ ECE students on 17/02/2026 in the AV Room.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EVEN Semester - January 2026 to May 2026

Photos

POSH



POSH Awareness Program

SPECIAL LECTURE



A Special Lecture was conducted for IV Year ECE students on 11th February 2026, focusing on “Deep learning applications in biomedical signal analysis, healthcare AI, and medical diagnostic systems”, enriching students with advanced technological insights.



Special Lecture on “**Fundamentals of CMOS Logic Design &simulation using LTSPICE**” on 03/02/2026

MOU COMPANY SIGNED

S.No	Date of Signing	Name of the Company	Mou Activity done
1.	15- 12- 2025	Harpy Aerospace Pvt Ltd Chennai	Guest lecture Topic: Small Satellites, Big Impact: Innovations and Future Trends in Nano satellite Technology Resource Person: Dr. Jayakumar Venkatesan Founder& CEO Harpy Aerospace Pvt Ltd Chennai
2.	5-1-2026	Sacdeeil Aerospace Pvt Ltd	Career Guidance Program: Job opportunities in Aviation and Automation in Personal Air Mobility Resource Person: Mr. Suvadhanan T Founder & CEO Sacdeeil Aerospace Pvt Ltd Tamil Nadu, India

Photo with Caption



MOU Signed with Harpy Aerospace Pvt Ltd



Interaction with faculty members

ECE 25-26 ODD SEMESTER

VAC

Title :iMAT: Image Manipulation and Analysis Toolkit

Staff Incharge: R.Sofia, AP/ECE

Date 21.07.2025 to 25.07.2025

Target Audience: III Yr ECE students

Venue: Simulation Lab



VAC

Title: Software simulation tools

Staff Incharge: Vadivukarasi.P

Date:08.09.2025 to 12.09.2025

Target Audience: Final year students Venue: Simulation lab



WORKSHOP

Title : AI IN AUTOMOBILE INDUSTRY

Staff Incharge: Mr. Kameeshwaran

Date :13.09.2025

Target Audience: II year ECE students

Venue: 210 Class room



Title : Concepts in Engineering electromagnetics: A Hands on Session Using Matlab

Staff Incharge: Dr.R. Sofia

Resource Person:

**Dr. P. Manikandan, Associate Professor, Dept of ECE,
Kalasalingam Academy of Research and Education**

Date :27.6.2025 Target Audience: III year ECE students

Venue: Simulation Lab



Title : Digital Logic Implementation using QCA

Staff Incharge: Mr. V. Rajesh

Date :26.7.2025

Target Audience: II year ECE students

Venue: Simulation Lab



GUEST LECTURERS

Title : Getting Started with Robotics

Resource Person: Mr. Mohammed Fadil, Managing Partner, ADROIIT Technovations

Staff Incharge: Mrs. K. Alamelu

Date :27.6.2025

Target Audience: III year ECE students

Venue: Ground Floor Auditorium



Dept of ECE organized a Guest Lecture titled “Getting Started with Robotics” for III Year ECE students on 27.06.2025 by Mr.R. Mohammed Fadil, Managing Partner ADROIIT Technovations

Title: Potential Career Opportunities in VFX

Resource Person: Ms.Uma Shankar, Igene VFX School of Technology, Chennai, Relationship Executive, Sarathy Nagar, Velachery, Chennai,

Target Audience: III ECE

Staff Incharge: C.Thiagarajan

Date: 3.10.25



Mrs.Uma Shankar and iGene team gave a presentation for the IIIrd ECE Students regarding the job opportunities available in the VFX industry.

Title: Empowering Startup System

Resource Person: Mr. R. S. L. Balaji, Founder & Director of Altruisty Innovation Pvt. Ltd

Target Audience: IV ECE

Staff Incharge: Dr. S. Semmalar

Date: 02.09.2025



Dr. S. Semmalar organized a guest lecture on “Empowering Startup System” by Mr. R. S. L. Balaji, Founder & Director of Altruisty Innovation Pvt. Ltd., for IV year ECE students on 02/09/2025 at 10:30 AM in the Simulation Lab.

IPR

Title : Digital Intellectual Property Seminar

Resource Person: Dr. P. Jayakumar Attorney-IPR, Research Faculty KARE

Target Audience: III ECE

Staff Incharge: Dr. R. Sofia

Date: 1.7.2025





EDP

Title : Design Analysis and Manufacture for Marine & Aerospace Application

Resource Person: Prof. Verramanikandan Ramachandiran

Mannschaft Eng. solutions

Target Audience: III ECE

Staff Incharge: Dr. R. Sofia

Date: 2.7.2025





Title : Entrepreneurship and Innovation for Higher Education Institutions

Resource Person: Dr. K. Indumathi, Professor/ECE/ Saveetha Engineering College

Target Audience: IV ECE

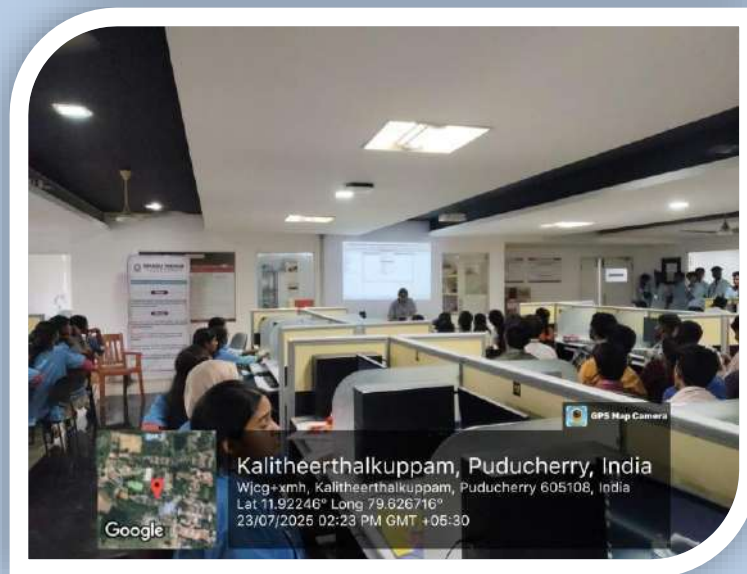
Staff Incharge: Dr. S. Semmalar, ASP/ECE

Date: 01/09/2025



Dr. S. Semmalar, ASP/ECE arranged a Seminar on Entrepreneurship and Innovation for Higher Education Institutions by Dr. K. Indumathi, Professor/ECE/ Saveetha Engineering College, for ECE students on 01.09.2025

RESEARCH METHODOLOGY WORKSHOP



Dr.R. Sofia, AP/ECE delivered an session on Research Design and Innovation in Signal and Image Processing: Tools, Techniques, and Trends on 23.07.2025 for IV year ECE students

COMPETITIVE EXAM GUIDANCE



Department of ECE organised a Career Guidance Program titled “Cracking GATE, TOFEL, & Other Milestones” for IV year ECE students on 12.07.2025 by Resource Person: Mr. Charles , Technical Head, Aerobiosys, Puducherry.



Photographs with description Prakash V, Founder of Code Builders, delivered a session to IIIrd year ECE students, sharing insights on programming education, career planning, and skill development. He highlighted practical applications, real-time projects, and emerging technology trends, inspiring the students to pursue successful careers in software and web development.

ALUMNI CONTRIBUTIONS



Mr. M. Velmurugan, Lead Developer at NU Logic Pvt. Ltd., delivered a session about Sales Force Commerce Cloud to III Year ECE students on 28.06.2025



Dept of ECE organized a Guest Lecture titled “Getting Started with Robotics” for III Year ECE students on 27.06.2025 by Mr.R. Mohammed Fadil, Managing Partner ADROIIT Technovations



A Lecture by ECE Alumni students titled “Knowledge on 6G Technology” by Mr.M. Maheshwaran, Maveria Solutions Pvt, Ltd Team Lead(2019-2023 Batch) for II ECE dated on 26.7.2025

QUALITY IMPROVEMENT PROGRAMS



Quality Improvement Program on Tools for Quality Implementation of Research was organized by the Department of Electronics and Communication Engineering, featuring Dr. J. Ajayan, Professor and Dean (PG Programs), SR University, Telangana dated on 26.06.2025 for the faculty member MVIT



Department of ECE organizes a Quality Improvement Program on "Emerging Trends and Quality Standards in Medical devices " for ECE department Students (All Year Students) on 16.07.2025 by Mr. Cyril Antony Co-founder. Engineer. Med-Tech Entrepreneur.

Orientation program



Orientation program on Outcome Based Education handled by Dr.S. Arunmozhi, Professor & Head/ECE on 02.08.2025 for the MVIT faculty members

Photos of the Session









Dr. Baig Mansur Ibrahim, Assistant Professor, Department of Management Studies, MVIT, conducted a session titled “Money Matters: Financial Literacy for Young Professionals” for the III Year ECE students on 14.10.2025.

LANGUAGE AND COMMUNICATION SKILLS TRAINING



Department of ECE organizes Language and Communication Skills training for Final year ECE students titled "VOICE YOUR IDEAS" by Mr. Jaikishor.J, Skill Consultant, COach & Mentor, Skill Academy on 08.07.2025

YOGA, PHYSICAL FITNESS, HEALTH AND HYGIENE

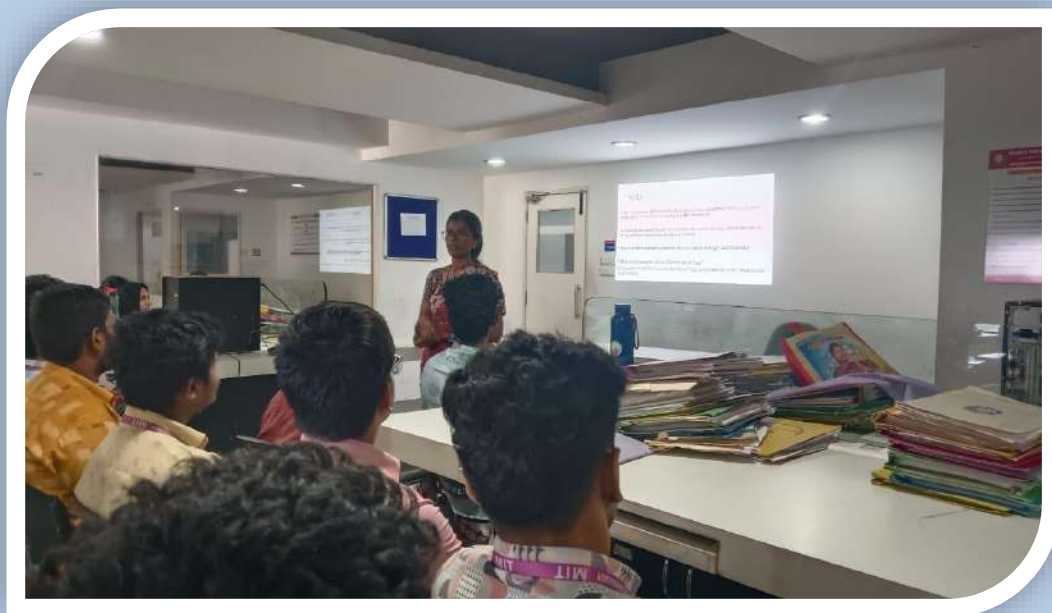


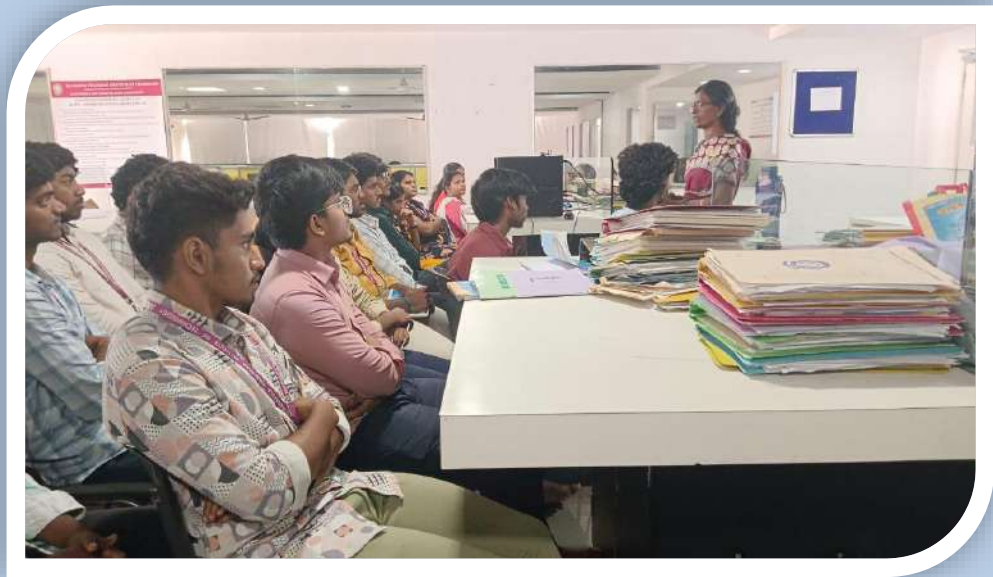
Department of ECE organizes Yoga, Physical fitness, health and hygiene program titled Breathe, Stretch, Grow: Yoga for Stress Management and well Being for III year ECE students dated on 21.07.2025 by Mr.J. Ragul, III/ECE student, A state level winner in yoga

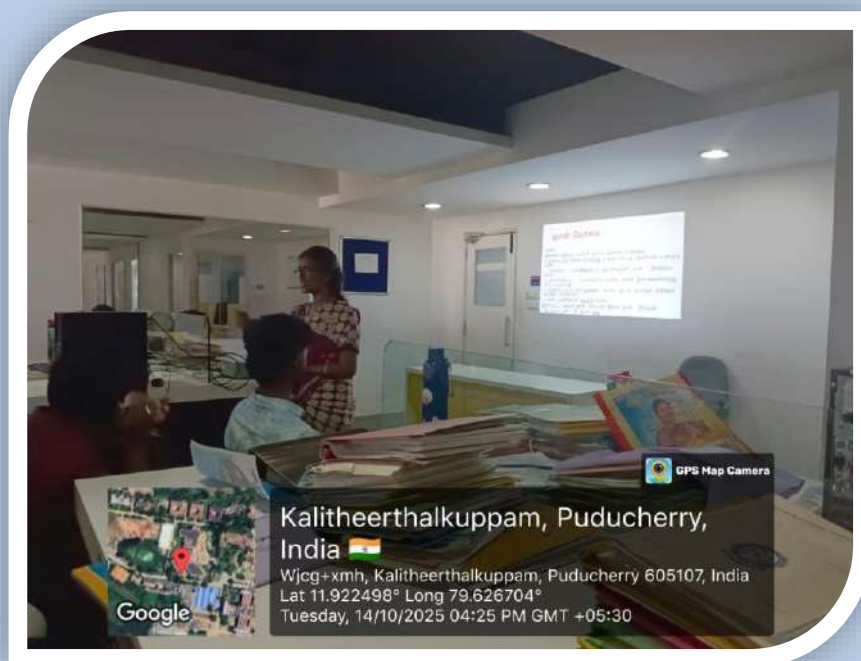






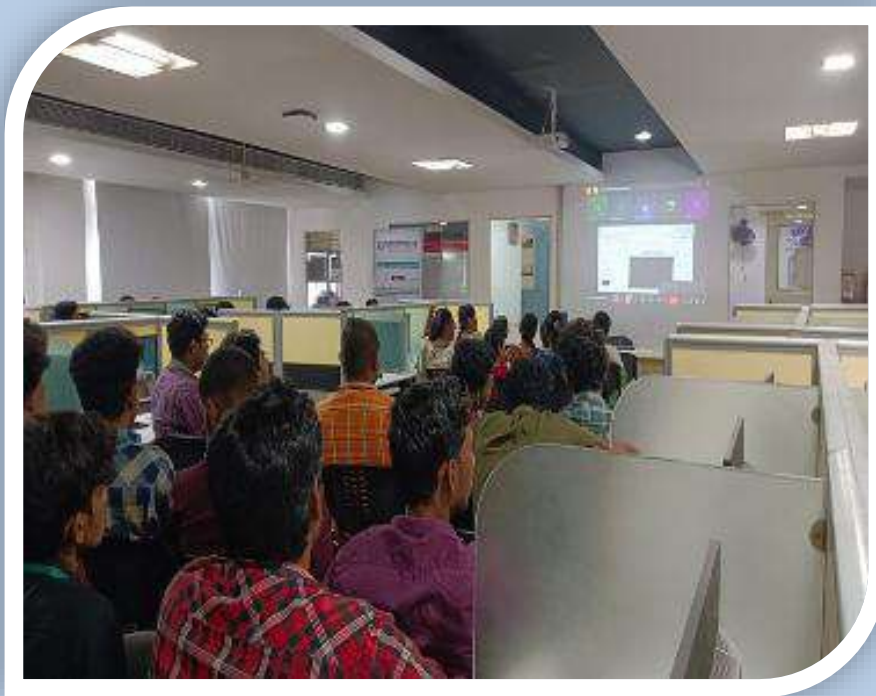




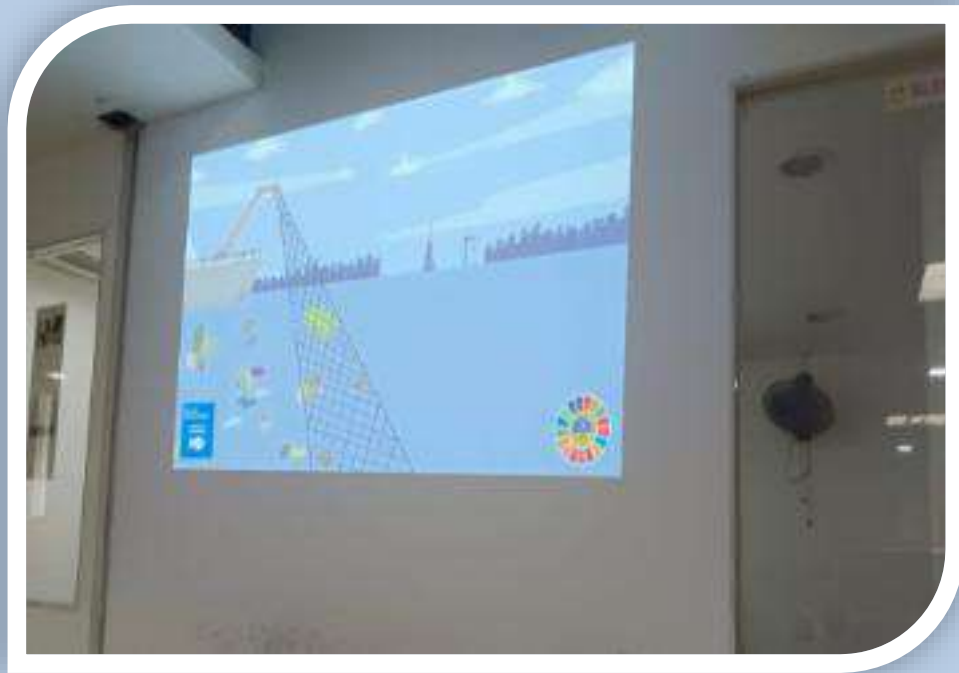


Dr. A. Thenmozhi, Dean (Academics), handled a session titled “Yoga for Health and Wellness” for the II Year ECE students on 14.10.2025 in the ACL Lab.

Endowment Lecture



Department of ECE organized a Endowment Lecture Titled Design & Implementation of 6T- SRAM cell using Cadence DA Tools(Schematic- to-GDSII) on 25.07.2025, by Ashokkumar Manisekaran, Praya labs, Tiruvannamalai, for IV year ECE Students



SDG - 14 Animation video competition for MVIT student dated on 21.07.2025

Commemorative Days



World Blood Donor Day-14.06.2025

MOU



MOU signed with ADROIIT Technovations



MOU signed with Aerobiosys on 16.7.2025

Faculty Outside World Interaction



MR.V.RAJESH Has been a resource person for the Achariya Engineering college dated on 16.07.2025



DR.S. SEMMALAR been a resource person for Adhiparashakthi College of Engineering



NI days 2025 India. Intelligence Test Systems customer success Future Vision. Organized by National Instruments (NI) @ Sheraton Grand Bengaluru attended by Mr. V. Rajesh and Mr. Anbazhagan on 8th July 2025

BOS MEETING



ECE DEPT BOS MEETING

EDITORIAL MEMBERS

SUDHARSHANA.S	II YEAR ECE
YAZHINI GOMATHY.S	II YEAR ECE
ANAND.R	III YEAR ECE
SANTHAKUMAR.M	III YEAR ECE
YUVARAJ.A	III YEAR ECE
VIJAY.M	IV YEAR ECE
KAMALEESWARI.I	IV YEAR ECE

STAFF INCHARGE
MR.C.THIAGARAJAN
AP/ECE

CONTACT US
DR.S.ARUNMOZHI
PROFESSOR & HEAD

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