



You Choose, We Do It

# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, Chennai - 119



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

# Newsletter

February 2025



**St. JOSEPH'S**  
GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119



*The Choice of*  
**Disciplined Toppers**



## VISION

To become a world class renowned department where dissemination and application of knowledge in design and analysis of electronic circuits in the field of communication is delivered and to synergistically balance through relentless pursuit of student success towards the economic prosperity of the society and the world at large.

## MISSION

Professionalism: Achieve excellence in teaching, learning, and educational activities which ensure that each student has the opportunity to attain his or her fullest potential

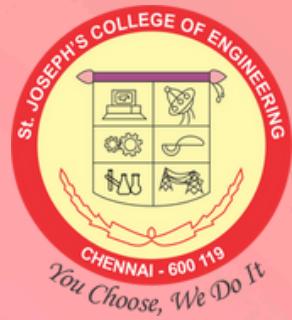
Core Competence: Inculcate innovative skills, research aptitude, team-work, ethical practices in students so as to meet expectations of the industry as well as society.

Research: Provide research and intellectual resources that address problems facing the industry and the world, while advancing the boundaries of disciplinary and multidisciplinary research and its applications.

Industrial Interaction: Provide professional development opportunities for all by creating an open and accessible learning environment and incorporating appropriate technology through collaboration with industry

## PROGRAM OUTCOMES

1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.



4. Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to proceed valid conclusions.
5. Modern tool usage: create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAM EDUCATIONAL OBJECTIVES

1. To enable graduates to pursue research, or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.
2. To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.
3. To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

# **EVENTS OF FEBRUARY-2024**

- **Alumni Activities**
- **Professional Society Activities**
- **ED Cell Activities**
- **Memorandum of understanding (MoU)**
- **Industrial Interactions**
- **Industrial Visit**
- **Student Achievements**
- **NGO Activities**
- **Staff Achievements**
- **AICTE QIP Certification Program**
- **PhD Viva-voce**

## ALUMNI ACTIVITIES



On 13th February 2025, an inspiring Alumni Talk was held for the second-year students of the Electronics and Communication Engineering (ECE) department. The event, titled "Mastering Career Success: Navigating Competitive Exams and Acing Placements", was conducted by Ms. Prithika Reshma A, a 2020-2024 batch alumna. Currently working as a Packaged App Development Associate at Accenture in Indore. Prithika shared her professional journey and provided valuable insights into preparing for competitive exams and acing campus placements. The session was attended by 190 enthusiastic students, eager to learn from her experiences and apply her tips to their own career development strategies.

## Professional Society Activities

### IEEE Student Chapter



ECE department, in association with IEEE, IEEE ComSoc, held **Project Expo-25** at **Mont Fort Academy** on February 6, 2025. Sixty-five engineering students presented 20 projects (Embedded Systems, IoT, Robotics, AI/ML, etc.) to school students, promoting STEM interest through interactive demonstrations and Q&A. The event successfully fostered technical awareness and provided valuable presentation experience for the engineering students.

## Professional Society Activities

### IEEE Student Chapter



IEEE student chapter of ECE Department organized a technical session on "Embedded Systems for Real-Time Energy Management in Solar PV and BESS." The event, held in February 14, 2025, from 10:00 AM to 12:00 PM was targeted towards 2nd-year students. The speaker was Akshay Kumar R, B.E., a **Global PCS and Battery Expert from the Center of Engineering Excellence, Hitachi Energy**. The session aimed to help students analyze the role of embedded systems in real-time energy management, gain in-depth knowledge of solar PV, battery storage, and grid integration, explore PVsyst software, and enhance their technical proficiency.

## Professional Society Activities

### OPTICA Student Chapter

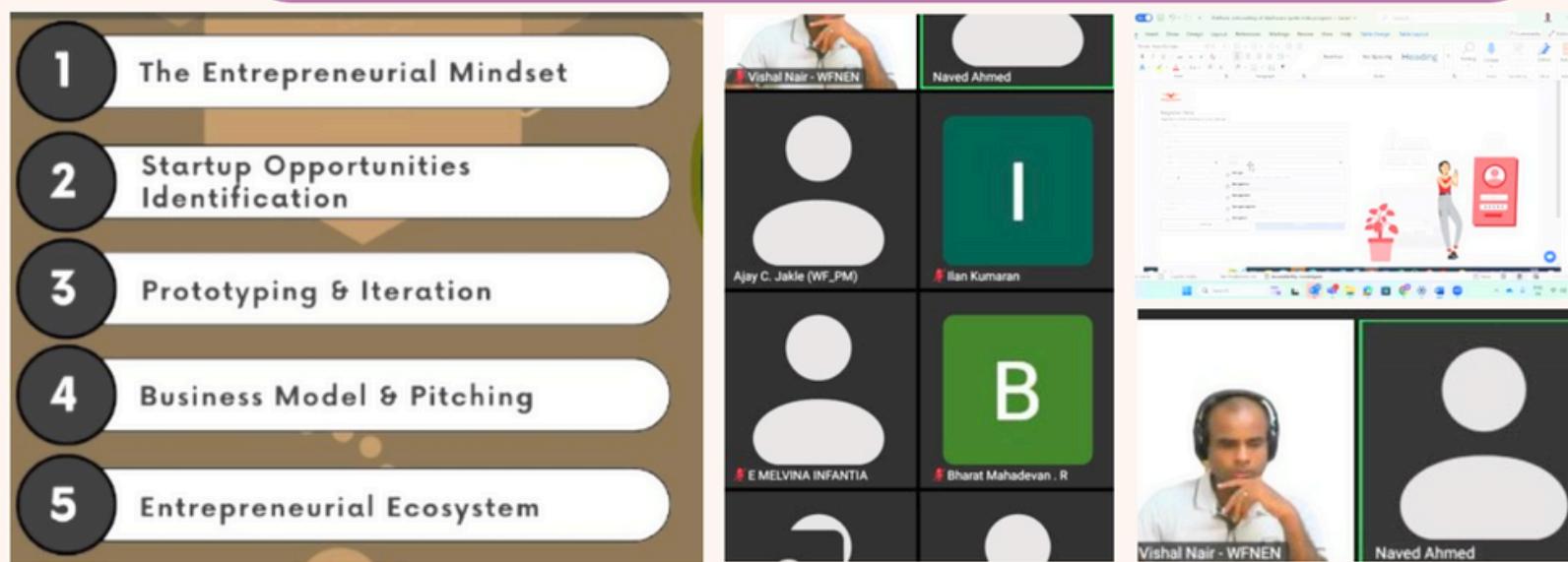


The OPTICA Student Chapter of ECE Department successfully conducted an engaging outreach event at **DAV Public School, Velachery** on February 5th, 2025, introducing students from classes 6 to 12 to Industry 4.0, IoT, and AI through 20 interactive, hands-on engineering projects. The 50-member OPTICA team facilitated personalized learning in small groups, showcasing real-world applications of automation, robotics, and AI-powered devices, and conducted a session on Tinkercad simulations for virtual circuit design. The event, marked by skillful presentations and practical demonstrations, successfully sparked curiosity and inspired students to explore STEM fields, highlighting the importance of hands-on learning and technological innovation.

## ED Cell Activities

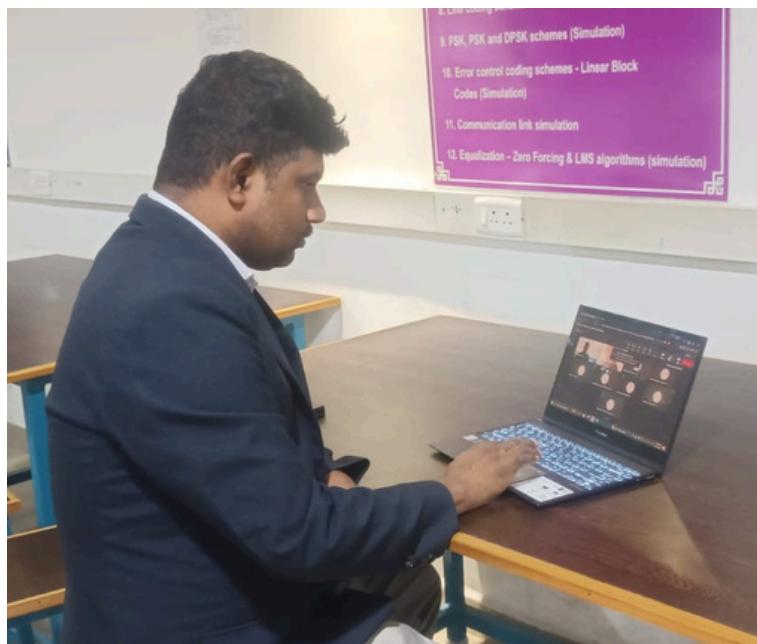
# (Entrepreneurship Development Cell)

*45 Hrs Intensive Startup Practice Venture Creation (SPVC)  
Internship Program*



The **45-hour Online SPVC Internship Program**, organized by the Wadhwani Foundation in collaboration with CED, Anna University, commenced on 25th February 2025 and will conclude on 26th March 2025. The program aims to enhance entrepreneurial and business skills among students through structured online training and interactive sessions. A total of 40 students from the II & III year ECE department actively participated in the internship. The curriculum includes start up fundamentals, business model development, and problem-solving strategies. Expert mentors from the industry provided hands-on guidance and real-world insights. The internship fosters innovation, leadership, and entrepreneurial thinking among participants. Regular assessments and project-based learning help students apply their knowledge effectively. This initiative equips students with essential skills for career advancement and entrepreneurship.

## ED Cell Activities (Entrepreneurship Development Cell)



The first mentoring session for second-year ECE students took place on 7th February 2025 via Microsoft Teams. Mr. Vigneshwaran, Founder of **EMBLOCK Technologies**, conducted the session to guide students who were shortlisted for the VENTURE VISION event. The focus of the session was on mentor allocation and providing guidance to the 9 student teams selected in Round 1 of the event. Mr. Vigneshwaran offered valuable insights into effective teamwork, innovation, and project development. He emphasized the importance of mentorship in refining ideas and strategies for the competition. The session concluded with the allocation of mentors to each team, setting a clear path for the next phase of the event.

## Memorandum of Understanding (MoU)



ECE Department in association with PEP centre has signed an **MoU with Edveon Technologies Private Limited** (specializing in VLSI RTL design and verification). This Collaboration aims to strengthen the connection between Industry and academia, fostering improved opportunities, expertise and resources in VLSI Advancements.

## Memorandum of Understanding (MoU)

Memorandum of Understanding (MoU) Signed with Data Patterns to Enhance collaboration in high-performance Electronics, Advanced Avionics, and cutting-edge Defense technology solutions.

BRIDGING KNOWLEDGE AND ACTION



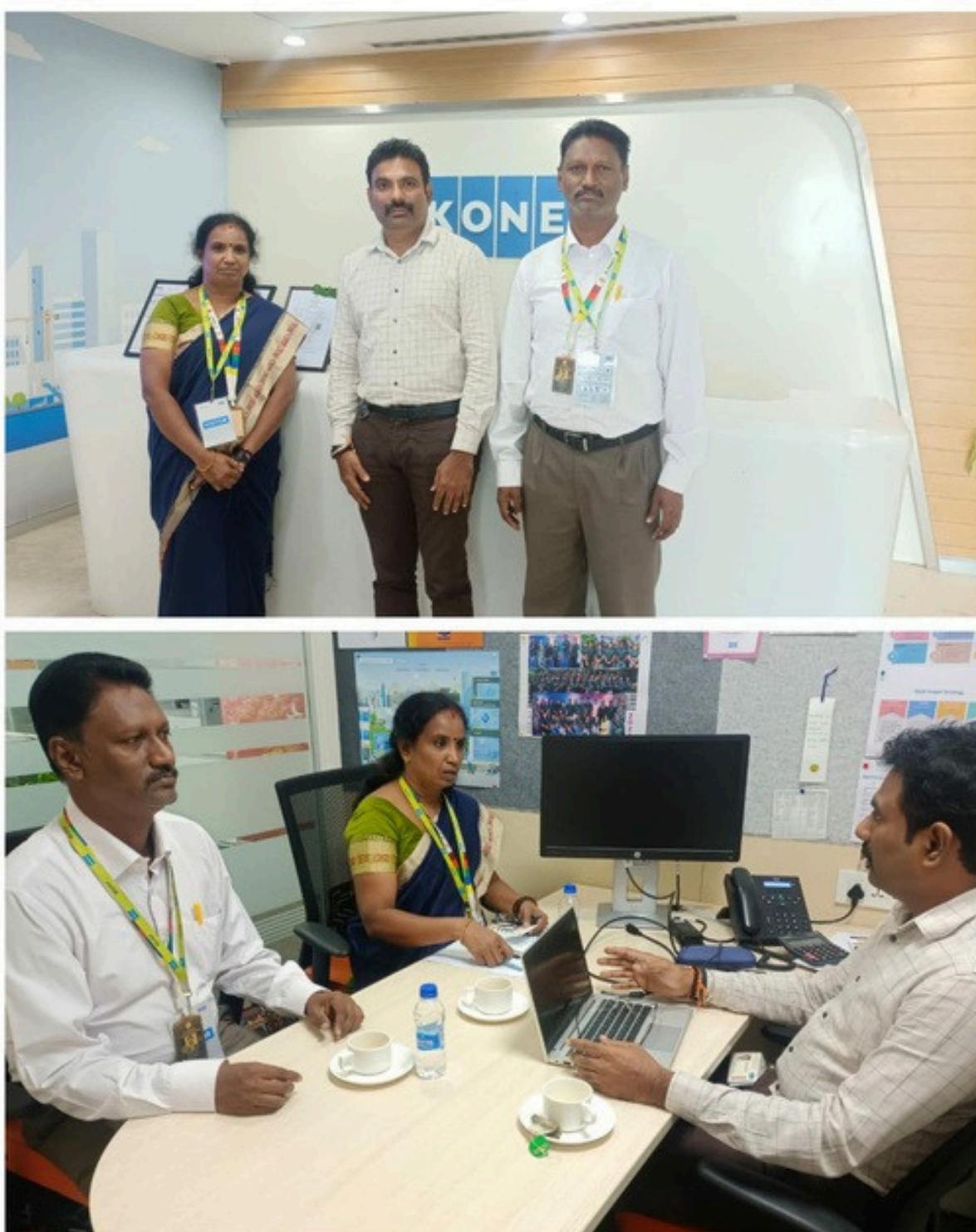
Our ECE Department has signed an **MoU with “Data Patterns”** in the esteemed presence of Mr. Lakshmi Narayanan K V, Vice-President-Human Resources, Karthik R, Associate General Manager-Human Resources. Data Patterns (India) is a vertically integrated Defence and Aerospace electronics solutions provider catering to the indigenously developed defence products industry. This Collaboration aims to strengthen the connection between Industry and academia, fostering innovation and technological advancement in indigenous defence and aerospace electronics.

## Memorandum of Understanding (MoU)



## Lab Visit with “Data Patterns” team

## INDUSTRY INTERACTION



ECE faculty Dr. D. Lakshmi and Dr. J. Sivakumar recently visited **Kone Elevator India Private Limited** in Chennai to explore collaboration opportunities. They met with Mrs. Sweeda Sherin and Mr. Sai Kiruba M to discuss a potential MoU, technology transfer through guest lectures and workshops, faculty training, and paid internships leading to placements. Kone, a global leader in elevators and escalators, focuses on smart and sustainable People Flow, operating within the context of urbanization, technological development, and sustainability megatrends.

## INDUSTRY INTERACTION



On February 25, 2025, Our ECE faculties Dr. R. Avudaiammal, Professor, and Dr. A. Simon Prabu, Assistant Professor visited **Anora Semiconductor Labs Private Limited**, Chennai. Anora is renowned for its expertise in test and product engineering, enhancing automation capabilities. Their focus lies in developing optimal design-for-test (DFT) strategies to tackle complex pre-silicon design challenges. During the visit, our faculty members had the opportunity to tour the company facilities with Dr. R.S. Pugalendhi, Managing Director of Anora Instrumentation Pvt Ltd. They engaged in discussions about end-to-end product development within the company.

## INDUSTRY INTERACTION



Our ECE Faculty Dr. S Vinayapriya visited **SYRMA SGS TECHNOLOGY LIMITED**, Mepz, Tambaram on 25th February. Syrma SGS is an Electronic System Design and Manufacturing Company offering Product Design, prototyping, PCB assembly, RFID and tester development, Magnetic Technology. During this visit she met Mr. Antony Clement - Senior General Manager, Ms. Mahalakshmi Bugatha - Assistant General Manager and discussed about Placement Opportunities, paid Internships, Guest Lecture , Workshop , Industrial training, MOU.

## Industrial Visit



On February 24th, 2025, 49 students embarked on an enlightening industrial visit to **Pumo Technovation**, gaining hands-on experience in PCB design, IoT solutions, and industrial automation. The visit, aimed at bridging the gap between theory and practice, featured a comprehensive presentation on Pumo Technovation's innovative services, followed by a live demonstration of PCB fabrication and testing procedures. Students were also introduced to IoT applications in smart devices and automation, and engaged in an interactive session with industry experts on current trends and career prospects.

## Industrial Visit



Sixty-one students experienced firsthand the rigorous world of electronic testing, calibration, and software validation during a February 26th, 2025, industrial visit to the **Electronics Test & Development Centre (ETDC)** in Chennai. As a premier Government of India organization, ETDC showcased its adherence to national and international standards like BIS, IEC, and ISO/IEC 17025, through a presentation and live demonstrations of electronics and electro-mechanical product testing, calibration, and software validation. Students engaged with industry experts, gaining insights into career prospects and current industry trends, while also enhancing their practical knowledge of electronic testing and certification.

## Industrial Visit



II Year ECE students explored the cutting edge of ocean technology and marine research during a February 28th, 2025, industrial visit to the **National Institute of Ocean Technology (NIOT)**. This premier research institute, under the Ministry of Earth Sciences, showcased its expertise in deep-sea exploration, coastal engineering, and ocean resource utilization through a presentation and live demonstrations of marine robotics, underwater vehicles, and coastal monitoring systems. Students gained practical insights into offshore engineering, deep-sea resource exploration, and environmental sustainability projects, and interacted with scientists to learn about career prospects and emerging trends.

## STUDENT ACHIEVEMENTS



The Department of Electronics and Communication Engineering is elated to announce the placement of Dhanush GK, Hemanth Kumar S, Jerry Lennart A, Narasiman D, and Pranith S as Graduate Engineer Trainees at **Renault Nissan**, with a CTC of **4 lakhs per annum**. These students, from the 2021-2025 batch, will embark on a dynamic journey within Renault Nissan, contributing to the company's engineering endeavors. As Graduate Engineer Trainees, they will likely be immersed in hands-on projects, gaining exposure to various aspects of automotive engineering, including design, development, testing, and potentially production processes. This role offers a unique opportunity to apply their academic knowledge to real-world challenges, developing critical skills in areas like vehicle electronics, communication systems, and automation, while working alongside experienced professionals in a globally recognized automotive company.

## STUDENT ACHIEVEMENTS



Department of ECE is proud to announce that Chandra Sekaran S, Nilopher Taj, Aaron Caleb, and THOMAS EPSIBA from our VLSI Design Center's Placement Empowerment Program have been selected for the prestigious **India Semiconductor Workforce Development Program (ISWDP) Samsung Fellowship**. Out of 2700 applicants, these exceptional students have made the cut, highlighting our commitment to empowering them with the skills and knowledge needed to excel in their careers. This achievement underscores the relentless efforts of our talented students and dedicated team, solidifying our position as a leading institution in fostering semiconductor industry talent in Chennai.

## STUDENT ACHIEVEMENTS



Department of ECE proudly highlights the achievements of NCC cadets, particularly L/CPL Jefry Rosarin E, a second-year student, who successfully completed the **Basic Leadership Camp in Coimbatore**. This participation, along with the involvement of cadets underscores the institution's commitment to holistic development and fostering national integration. These experiences provide cadets with invaluable leadership training, instill discipline, and promote a sense of national pride, reflecting the college's dedication to shaping well-rounded individuals who excel both academically and in service to the nation.

## STUDENT ACHIEVEMENTS



Kundrapu Sujitha, a second-year student of the Electronics and Communication Engineering (ECE) Department, secured the Second Runner-Up position in the **State-Level Silver Jubilee Trophy Ball Badminton Tournament** held at B.S. Abdur Rahman Crescent Institute of Science and Technology. Her outstanding performance and dedication in the tournament brought laurels to our institution. Her achievement is a testament to her hard work, perseverance, and sportsmanship. The management, faculty, and students of St. Joseph's College of Engineering congratulate Sujitha on her remarkable success and wish her the best for future competitions.

## NGO Activities



On 8th February 2025, the students of II ECE A from our college visited **Saratha Illam in Maduravoyal** as part of their community service initiative. During their visit, they actively engaged with the children by organizing interactive educational sessions, storytelling, and fun learning activities aimed at enhancing their knowledge and creativity. They also assisted the NGO staff in managing daily operations, including organizing books, helping with meal distribution, and creating a more structured learning environment. The visit proved to be a deeply enriching experience, as it allowed students to witness firsthand the challenges faced by underprivileged children and understand the impact of small acts of kindness. Through meaningful interactions, the students fostered a sense of care and encouragement among the children, leaving a lasting impression on both the visitors and the residents of the home.

## NGO Activities



On 8th February 2025, the students of II ECE B from our college visited **Faith Home Orphanage in Porur**, where they dedicated their time to making a meaningful difference in the lives of the residents. The students engaged in heartfelt conversations with the elderly, providing them with companionship and emotional support, which brought smiles to their faces. They also assisted in routine tasks such as arranging living spaces, helping with meal preparations, and ensuring a comfortable environment for the residents. To add a joyful touch to the day, they organized recreational activities, including music sessions, games, and storytelling, creating an atmosphere filled with laughter and warmth. The experience was deeply touching, as it reinforced the importance of empathy, patience, and the value of social responsibility.

## NGO Activities



On 8th February 2025, the students of II ECE C from our college visited **DMI Home in Wallajabath**, where they dedicated their time and effort to supporting the children and staff of the organization. The students actively participated in various tasks, including assisting in the care of young children, helping with their studies, and organizing engaging educational and recreational activities such as storytelling, art and craft sessions, and outdoor games. Their involvement extended to supporting the staff in their daily responsibilities, ensuring a well-organized and nurturing environment for the children. Through this enriching experience, the students gained a deeper understanding of social responsibility and the positive impact of community service. Witnessing the joy and gratitude of the children reinforced the significance of small yet meaningful contributions in improving the lives of those in need.

## STAFF ACHIEVEMENTS

### AICTE QIP CERTIFICATION PROGRAM

#### **AICTE QIP PG Certification Program Felicitation Ceremony at AICTE Headquarters Delhi**

Host Institution - IIIT, Surat

Host Institution - IIT, Roorkee

Host Institution - IISc, Bengaluru



Mrs G. Anitha  
Assistant Professor

PG Certification in  
Machine Learning



Mrs K. Jasmine Mystica  
Assistant Professor

PG Certification in  
Wireless Technology and IOT



Mrs P. Elaveni  
Assistant Professor

PG Certification in  
Machine Learning

Three faculty members from the Electronics and Communication Engineering Department received **PG Certifications at a ceremony held at the AICTE Headquarters in Delhi**. Mrs. G. Anitha and Mrs. P. Elaveni were awarded certifications in Machine Learning, instructed by IIIT Surat and IISc Bengaluru respectively. Mrs. K. Jasmine Mystica earned her certification in Wireless Technology and IoT from IIT Roorkee. This achievement highlights the college's dedication to faculty development in emerging technologies. Congratulations to the faculty and the department!

## **STAFF ACHIEVEMENTS**

### **PhD VivaVoce**



We are proud to announce that S. Devipriya, Assistant Professor, Department of Electronics and Communication Engineering has successfully completed her Ph.D. in Information and Communication Engineering at Anna University, Chennai. Her thesis titled “Investigations on Energy Efficient Resource Allocation and User Pairing Strategies for Futuristic 5G Non-Orthogonal Multiple Access Schemes” helps to contribute for the advancements in 5G and beyond technologies. Her research, guided by Dr. J. Martin Leo Manickam, Professor also explores innovative approaches to optimize wireless communication networks.

Congratulations, Dr. S. Devipriya, on this remarkable achievement!

## STAFF ACHIEVEMENTS

### OUTREACH PROGRAM



Mr. G. D. Vignesh, Assistant Professor from the Department of ECE delivered a Guest lecture titled “Machine Learning in Healthcare” at **Meenakshi Sundararajan Engineering College, Chennai** on 19th February 2025. He provided valuable insights into the role of ML in disease prediction, medical imaging, and personalized treatment. The session covered key ML algorithms, real-world healthcare applications, and challenges in data privacy and model accuracy. Students actively engaged in discussions, exploring innovative solutions for healthcare advancements. The lecture enriched participants with practical knowledge, bridging the gap between technology and medical science.

## STAFF ACHIEVEMENTS

### OUTREACH PROGRAM



**Dr. D. Sumithra Sofia was the Guest at the " Research Conclave" held at **SRM Institute of Science and Technology , Vadapalani**, on 21st February 2025.** During this event, importance of research and variable insights into the research methodologies were discussed. She also shared research techniques and the challenges faced during her research journey.

## **STAFF ACHIEVEMENTS**

### **PUBLICATIONS**

**Dr. R. Niruban Associate Professor, Department of ECE has presented a paper titled “ An Efficient Deep Learning Based Seq2Seq Model for Abstractive Text Summarization: Artificial Intelligence and Speech Technology. AIST 2023. Communications in Computer and Information Science.**

**D Lakshmi Associate Professor, Department of ECE has presented a paper titled “ IoT-Connected Telehealth Environments with Long Short-Term Memory Networks for Precise Time-Series Patient Behavior Analysis” in 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS)**

**A. M. Balamurugan, Associate Professor and G. D. Vignesh, Assistant Professor , ECE Department has presented a paper titled “ Optimizing Security in OBS: Implementation and Evaluation of Modified SHA-160 Algorithm” in 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024**

**Dr. A. M. Balamurugan, Associate Professor and R. S. Vishal and R. Vignesh, Final Year ECE Department has presented a paper titled “ Next Hop Selection Algorithm using DS Evidence Theory for Wireless Sensor Networks” in 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024**

**A. M. Balamurugan, Associate Professor and V. Sai Ravi Ganesh and R. Prinston , Final year Department of ECE has presented a paper titled “ Enhanced Fast Recovery Dynamic Assembly Period Algorithm for TCP over OBS Networks” in 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024**

**Madhumitha, R Published a journal titled “Experimental Analysis of EDM Parameters on D2 Die Steel Using Nano-aluminum Composite Electrodes”, Journal of Environmental Nanotechnology, Volume 13, No 3 (2024)**

## Staff Achievements

### PUBLICATIONS

**M. Angelin Ponrani, T. Abishek, R. Dhivakar, presented a paper entitled “Enhancing UAV Communication Performance through GCN-Driven Channel Adaptation”, 2024 International Conference on Sustainable Communication Networks and Application (ICSCNA)**

**G D Vignesh, presented a paper entitled “An Energy Efficient Improved Clustering based Data Compression Protocol in Wireless Sensor Network”, 2024 7th International Conference on Contemporary Computing and Informatics (IC3I)**

**Vignesh, G.D., Sabaridharan, V.P., Balamurugan, A.M., Ronald, T.R., presented a paper entitled “An Efficient Cluster based Co-Operative-ED Max Selection Algorithm for Improving the Detection Accuracy of SU Nodes in CR – WSN”, 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India,**

**Niruban, R., presented a paper entitled “Enhancing SAR Automatic Target Recognition with Advanced Target Generative Adversarial Network”, 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024 pp. 1-6, doi: 10.1109/SSITCON62437.2024.10796276.**

**A.M. Balamurugan and G. D. Vignesh, presented a paper entitled “Optimizing Security in OBS: Implementation and Evaluation of Modified SHA-160 Algorithm”, 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024 pp. 1-5, doi: 10.1109/SSITCON62437.2024.10797210.**

**Dr.P.Ezhilarasi Published a Journal entitled “Dynamically stabilized recurrent neural network optimized with intensified sand cat swarm optimization for intrusion detection in wireless sensor network” in Computers & Security.**

## **Staff Achievements**

### **PUBLICATIONS**

**B. Victoria Jancee Published a Journal entitled , “ Deep learning for infectious disease surveillance integrating internet of things for rapid response”, in International Journal of Electrical and Computer Engineering (IJECE).**

**R.Niruban Published a Journal entitled , “Efficiency and Reliability: Optimization of Energy Management in Electric Vehicles Apply Monarch Butterfly Algorithm and Fuzzy Logic Control” in Maintenance and Reliability .**

**Dr.S.Vinayagapriya Published a Journal entitled , “Automated Classification of Coloboma Subtypes UsingInceptionV3 Algorithm on Optical Coherence Tomography Images” in Journal of Information Systems Engineering and Management.**

**Suresh Maruthai Published a Journal entitled, “Multi-axis transformer based U-Net with class balanced ensemble model for lung disease classification using X-ray images”, Journal of X-Ray Science and Technology.**

**Suresh Maruthai Published a Journal entitled ” Wastewater Recycling Integration with IoT Sensor Vision for Real-time Monitoring and Transforming Polluted Ponds into Clean Ponds using HG-RNN”, Global NEST Journal.**

## STAFF ACHIEVEMENTS

### PATENT PUBLISHED

**M.Angelin Ponrani, Assistant Professor, Department of ECE has published a Patent titled “ A Convolutional Neural Network-Based System for the Recognition and Voice Alert of Traffic Sign Boards”**

**Dr.D.Sumithra Sofia Assistant Professor, Department of ECE has published a Patent titled “Dynamic Resource Allocation System for Optimized Supply Chain”.**

**Dr. D. Sumithra Sofia Assistant Professor, Department of ECE has published a Patent titled “Nano Antennas for wireless energy transfer and communication”.**

**Dr. D. Sumithra Sofia Assistant Professor, Department of ECE has published a Patent titled “AI-Based Signal Processing for Efficient Wireless Communication in Industrial IoT Systems”**

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