



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# SPARKZ-NEWSLETTER

Volume-31 | FEBRUARY, 2025



## INNOVATION IN ACTION, SUCCESS IN MOTION

## VISION

To come forth as an eminent department in the field of electronics and communication engineering to foster research in pioneering technologies and engender professionals having technical excellence and ethical values to serve the industry and society.

## MISSION

**Ingenious** - To provide the best resources in teaching, learning and other to provide the best resources in teaching, learning and other potential in the field of Electronics and Communication Engineering.

**Technical Excellence and societal development** - To inculcate technical knowledge, appraise leadership qualities, team work and ethical practices in students so as to meet the expectations of the industry as well as the society.

**Skill Enhancement** - To organize exclusive courses, conferences, seminars on the current technological developments that imparts knowledge in pioneering technologies which will be an added benefit for bringing out the various talents in the students and faculties.

**Industry Interaction-** To uphold connectivity with industries to get on par with the recent technologies, consequently as to progress as center of excellence in research.

**Career Guidance** - To foster career improvement through placements, higher education, research and entrepreneur skills by continuous training and guidance.

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## INDUSTRY-INSTITUTE COLLABORATION



Dr. G.S. Uthayakumar, Associate Professor from the Department of ECE, visited Oneyes InfoTech Solutions Pvt Ltd at Ambattur Industrial Estate, Chennai, on February 5, 2025. During the visit, he met with the Managing Director to discuss potential industry-academia collaborations and explore emerging technological advancements. The interaction focused on enhancing student learning experiences through industry exposure and hands-on training opportunities. This visit marks a significant step toward strengthening ties between academia and the tech industry for mutual growth and innovation.

## INDUSTRY-INSTITUTE COLLABORATION



Dr. G.S. Uthayakumar, **Associate Professor**, and Mr. J. Bino, **Assistant Professor** from the **Department of Electronics and Communication Engineering (ECE)** at **St. Joseph's Institute of Technology**, visited **PRS SemiCon** for a **strategic discussion** with the **Director-Technical** on **11<sup>th</sup> feb**. The meeting focused on **student internships, collaboration on funded projects, and placement opportunities** in the core industry with **higher salary packages**. Additionally, they explored the **organization of seminars and workshops** in association with the company. The visit also included discussions on the **signing of a Memorandum of Understanding (MoU)** to strengthen industry-academia ties.

The discussion emphasized the importance of **bridging the gap between academic learning and industrial requirements** to enhance student employability. Both parties also considered **mentorship programs** where industry experts would guide students in **cutting-edge semiconductor technologies**. The initiative is expected to create a **long-term partnership**, benefiting both students and faculty in research and career growth.



# CLUB ACTIVITIES



The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology, in association with the ERC Club & Student Chapters, successfully conducted the INSIGHTX (Pitch Deck) competition on 7th February 2025. The event, held in Room No. 41 from 12:00 PM to 1:00 PM, provided ECE students with an opportunity to showcase their innovative ideas based on the 17 Sustainable Development Goals and Open Domain. Participants competed in teams of two, demonstrating their entrepreneurial and presentation skills. Winners were awarded certificates, recognizing their outstanding performance in the competition.



# MOCK INTERVIEW

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**MOCK INTERVIEW**

**For II Year Students**  
 Batch 2023-2027

**VENUE:** EMBEDDED & VLSI LAB  
**DATE:** 08-02-2025

**Interviewers:**

- Swaminathan M G, Senior Business Analyst, CubeSimplify, BATCH: 2019-2023
- Y D Huldha, Techno SAP consultant, Kaar, BATCH: 2020-2024
- J SATHISH KUMAR, SAP FTE Trainee, Kaar, BATCH: 2020-2024
- Subbanandh C V, Programmer, SRM Tech, BATCH: 2019-2023
- Leo Joice S G S, Automation Engineer, KEYENCE, BATCH: 2020-2024
- Neetha Shenoy, Business Analyst, newgen, BATCH: 2020-2024
- Krishnaraj, Tech Support Engineer, coronis, BATCH: 2020-2024
- Prem Sagar S, Assistant system engineer, JASMIN INFOTECH, BATCH: 2020-2024

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*The Choice of Disciplined Toppers*

The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology successfully conducted a Mock Interview session for II-year students (Batch 2023-2027) on 8th February 2025. Industry professionals from reputed companies like CubeSimplify, Kaar Technologies, SRM Tech, Keyence, Newgen, Coroanis, and Jinasih participated as interviewers. The event, held at the VLSI Lab, provided students with a real-time interview experience, helping them enhance their communication and technical skills.

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**MOCK INTERVIEW**  
 FOR  
 Second YEAR STUDENTS BY ALUMNI

**08-02-2025** **EMBEDDED & VLSI LAB**

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# IEEE ACTIVITIES-WEBINAR



The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology, in association with IEEE BTS & IEEE Photonics Society, successfully conducted a webinar on "IEEE Funding & Recognition Opportunities for Future Innovators" on 12th February 2025. The session was delivered by Mr. Md Tabil Ahammed, Vice Chair of the IEEE Photonics Society (Bangladesh Chapter) and Secretary of the IEEE Computer Society (Bangladesh Chapter). The event, held at the Networks Lab, provided valuable insights into IEEE funding opportunities and global recognition for young innovators. This exclusive session for II-year ECE students proved to be highly informative and inspiring.





## IEEE ACTIVITIES-WEBINAR

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webinar on  
**Exploring the Impact and Applications of 5G Technology**

9 INDUSTRY INNOVATION AND INFRASTRUCTURE

BTS IEEE Broadcast Technology Society

**PARAMESWARAN R**  
Anna Centenary Research Fellowship  
IEEE Young Professional

WEDNESDAY 26 FEB 2025 | TIME 06:00 PM | <https://meet.google.com/wwq-mawi-vzx>

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The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology successfully conducted a webinar on "Exploring the Impact and Applications of 5G Technology" on 26th February 2025. The session was delivered by Mr. Parameswaran R, an IEEE Young Professional and Anna Centenary Research Fellowship recipient, who provided valuable insights into the advancements and applications of 5G technology. The webinar, held at 6:00 PM via Google Meet, attracted enthusiastic participation from students and faculty members. The session proved to be highly informative and engaging, shedding light on the future of wireless communication.

# MENTOR MEETING

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Organizes

**MENTOR MEETING**

For II Year ECE Students

**14-02-2025**  
**10:00 - 11:00 AM**

**AGENDA:**

- To encourage the academic perspective, professional goals, and personal challenges that will impact their studies.
- Motivate the students to utilize the PEP/HOPE program efficiently.

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The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology successfully organized a Mentor Meeting on 14th February 2025 from 10:00 AM to 11:00 AM. The session aimed to encourage students in their academic journey, professional goals, and personal challenges that impact their studies. Additionally, students were motivated to make effective use of the PEP/HOPE program for their growth and development. The meeting provided valuable guidance to help students navigate their academic and career paths efficiently.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**14-02-2025**  
**10:00 AM - 11:00 AM**

**MENTOR MEETING**

FOR  
**II Year Students**

CLASS ROOM

**OUTCOMES:**

- Academic concerns, career goals, or personal challenges that impact their studies.
- Encourage the II year students to utilise the PEP/HOPE program effectively.

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# GUEST LECTURE



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Guest Lecture**  
Topic on  
**"Status of Electronics Industry in India"**

**Dr. Rajaram Venkataraman**  
Founder  
Navya Insights and Solutions Pvt Ltd  
Nanganallur, Chennai

**25-02-2025**

**11:40 am - 1:00 pm**

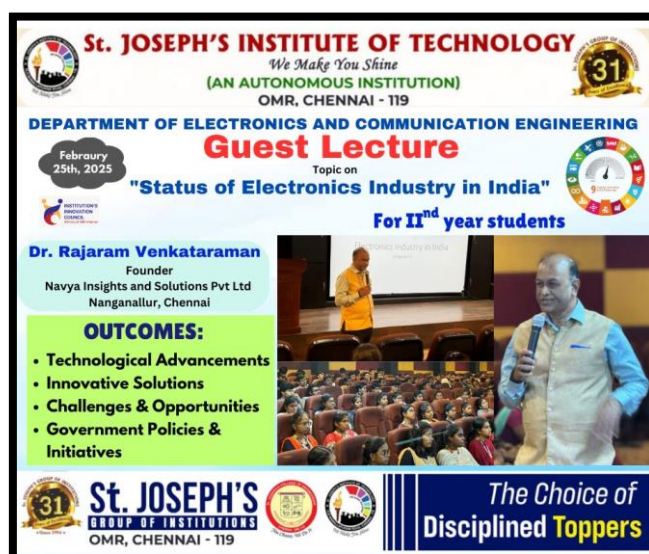
**AV Hall 2**

**FOR II YEAR ECE STUDENTS**

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The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology successfully conducted a guest lecture on 25th February 2025 for first-year ECE students. The session was delivered by Dr. Rajaram Venkataraman, Founder of Navya Insights and Solutions Pvt Ltd, Nanganallur, Chennai. He provided valuable insights into the current status and future prospects of the electronics industry in India. The event, held at AV Hall 2 from 11:40 AM to 1:00 PM, helped students gain industry-oriented knowledge and understand emerging trends.



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Guest Lecture**  
Topic on  
**"Status of Electronics Industry in India"**

**For II<sup>nd</sup> year students**

**Dr. Rajaram Venkataraman**  
Founder  
Navya Insights and Solutions Pvt Ltd  
Nanganallur, Chennai

**OUTCOMES:**

- Technological Advancements
- Innovative Solutions
- Challenges & Opportunities
- Government Policies & Initiatives

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# GUEST LECTURE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Guest Lecture**  
 Topic on  
**HISTORICAL PERSPECTIVE OF ELECTRONICS**

**Dr. S. Muttan**  
 Professor of Emeritus  
 Department of Electronics and Communication Engineering  
 Anna University  
 Chennai

For II Year ECE Students

27-02-2025 11 am - 1:00 pm AV Hall 2

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The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology organized a guest lecture on 27th February 2025 for first-year ECE students. The session was delivered by Dr. S. Muttan, Professor Emeritus from Anna University, Chennai, who shared insights on the historical evolution of electronics and its impact on modern technology. The event, conducted at AV Hall 2 from 11:00 AM to 1:00 PM, provided students with a deep understanding of the subject's historical context.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**GUEST LECTURE**

Topic on  
**AN INSIGHT INTO THE "BEAUTIFUL WORLD" OF ELECTRONICS**

**INFERENCES:**

- Knowledge on insight and ubiquity of Electronics.
- Evolution and Advancements in real time.
- Electronics in Smart and Embedded Systems.
- Sustainability Challenges.
- Knowledge about Emerging fields.

Dated on 27/02/2025

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# INDUSTRIAL VISIT



The poster is for an industrial visit organized by the Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology. It features the institute's logo and name at the top, followed by the department name and the title 'Industrial Visit'. The visit is to Luminogloz Solutions Private Limited. The location and dates are provided in separate boxes. A list of learning opportunities is included, along with a photograph of the industrial equipment. The bottom of the poster features the St. Joseph's Group of Institutions logo and the tagline 'The Choice of Disciplined Toppers'.

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Industrial Visit**

**LUMINOGL0Z SOLUTIONS PRIVATE LIMITED**

**Location:**  
Unit 2-Door No.6, 114-3A-1,  
Ponniammann Koil Street, New  
Mahalakshmi Nagar, Noombal,  
Chennai - 600077, TAMIL NADU,  
INDIA

**Dates:**  
**II ECE-A - 24.02.2025**  
**II ECE-B - 26.02.2025**  
**II ECE-C - 28.02.2025**

**Learning Opportunities:**

- Insights into the use of automation in manufacturing, assembly and quality control.
- Basics of Light Emitting Diodes (LEDs) and their working principles.
- Practical insights into the design, production, and quality testing of LED products.
- Different types of LEDs used for various applications.
- Interaction with industry experts and engineers.
- Insights into career opportunities in LED manufacturing and electronics.

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The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology successfully organized an industrial visit to Luminogloz Solutions Private Limited in Chennai. The visit, held on 24th, 26th, and 28th February 2025, provided II-year ECE students with valuable insights into LED technology, automation, and quality control in manufacturing. Students explored the design, production, and testing of LED products while interacting with industry experts. The visit proved to be an enriching experience, offering practical exposure to career opportunities in LED manufacturing and electronics. Additionally, the visit **enhanced students' understanding of the role of automation** in modern manufacturing, particularly in improving **efficiency and precision**. The session included **live demonstrations** of advanced **LED testing equipment**, allowing students to grasp the importance of **quality assurance** in electronics production. The students also received **guidance on industry trends and skills** required for securing **internships and placements** in the **core electronics sector**.

# WORKSHOP

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**IEEE EMBS** Workshop on **IEEE BTS** IEEE Broadcast Technology Society

**GETTING STARTED WITH MATLAB: FUNDAMENTALS FOR COMMUNICATION ENGINEERS**

**For IEEE Student Members**

**THURSDAY**  
**27 FEB 2025**

**TIME**  
**01:40 - 3.00 PM**

**VENUE**  
**NETWORKS LAB**

**MS S SINDHUKAVI**  
 ASSISTANT PROFESSOR  
 DEPARTMENT OF ECE

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The Department of Electronics and Communication Engineering at St. Joseph's Institute of Technology successfully organized a workshop on "Getting Started with MATLAB: Fundamentals for Communication Engineers" on 27th February 2025. The session was conducted by Ms. S. Sindhukavi, Assistant Professor, Department of ECE, exclusively for IEEE student members. The workshop, held at the Networks Lab from 1:40 PM to 3:00 PM, provided hands-on experience in MATLAB for communication applications. The session was highly interactive and informative, equipping students with essential computational skills.

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Feb 27th, 2025**

**Workshop on**

**Getting Started with Matlab: Fundamentals of Communication Engineers**

**OUTCOMES:**

- Learned MATLAB's interface, workspace, and basic commands.
- Understand the different types of variables and data structures in MATLAB.

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# HACKATHON WINNERS

## UYIR Road Safety Hackathon 2025

We are thrilled to announce that a team from the second-year Electronics and Communication Engineering (ECE) department has secured **First Place** with worth of **Rs. One lakhs** in the prestigious **UYIR Road Safety Hackathon 2025**, held at Sri Krishna College of Engineering and Technology, Coimbatore, on February 8th and 9th, 2025. The team members include **Mr. Kalidass L, Ms. Lathika B, and Ms. Keerthanaa N**, who were guided by their mentors **Dr. P.G. V. Ramesh and Mr. D. Suresh**.

The competition focused on solving real-world issues related to Accident Detection & Emergency Response System in Coimbatore, a crucial aspect of road safety. A total of 3000 teams registered for the event, showcasing significant participation from across the region. After a rigorous evaluation process, only 400 teams made it to the second round of presentations, and 120 teams were shortlisted for the final round.



The team's innovative solution earned them the top position, winning a cash prize of Rs. 1 Lakh. This achievement reflects the hard work, creativity, and technical expertise of the students and their mentors. The team's success is a testament to the excellence fostered in the ECE department and the support provided by dedicated faculty members.

We extend our sincere gratitude to our mentors for their guidance and to everyone who offered their support and motivation throughout this journey. This victory marks an important milestone for the team and highlights the significance of fostering talent and innovation in addressing societal challenges.

## VORTEX HACKATHON

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**31**  
Years of Excellence

**DEPARTMENTS OF ECE**

**Team Name**  
Poseidon's Map Makers

**Team Members**  
Vimalan.S - II ECE  
Vasanth.S - II ECE  
Sanjay.T - II ECE  
Walter viwin.J - II ECE

**Project Title**  
The Volans MAP

**WINNERS OF /  
VORTEX  
HACKATHON**

**PRIZE AMOUNT OF  
RS.4,000/-**

**Mentor : Dr.S.Tephillah - ASP**

**ORGANIZER  
SSN COLLEGE OF ENGINEERING**

**24 FEBRUARY, 2025**

IEEE

SSN COLLEGE OF ENGINEERING

VORTEX Hackathon

24th FEBRUARY 2025 (9:00 AM - 12:00 PM)

Golden Trophy Competition

THE CHOICE OF DISCIPLINED TOPPERS

A team of II-year ECE students from St. Joseph's Institute of Technology, named Poseidon's Map Makers, emerged as the winners of the VORTEX Hackathon organized by SSN College of Engineering on 24th February 2025. The team, consisting of Vimalan S, Vasanth S, Sanjay T, and Walter Viwin J, secured the first place with their innovative project titled "The Volans MAP." Under the guidance of their mentor, Dr. S. Tephillah, the students showcased their technical skills and problem-solving abilities. They were awarded a prize amount of Rs. 4,000, marking a proud achievement for the Department of ECE.

## CODE FEST'25 International Hackathon



A team of talented students from the **Department of ECE** secured **First Prize** at the **CODE FEST'25 International Hackathon** held at **Arunai Engineering College, Tiruvannamalai**, on **20th & 21st February 2025**. The winning team, consisting of **Priyadharshini S, Sivaprakasam T, Shriram S, and Subasri R**, developed an innovative **web-based Augmented Reality (AR) application**. Their outstanding performance earned them a **cash prize of Rs. 12,000/-**. The team was mentored by **Dr. Maria Christina Blessy, AP, and Mr. T. Siva, AP**, who provided valuable guidance throughout the competition. This remarkable achievement showcases the technical excellence and innovative capabilities of ECE students in cutting-edge technology.





## CTFQuest'25



A team of students from the **Departments of ECE** won **Second Prize** in the **CTFQuest'25** competition held at **Thiran 2025**, organized by **Sri Eshwar College of Engineering, Coimbatore**, on **20th February 2025**. The team, named **Ex0rcists**, consisted of **Shyamalavannan G (III ECE)**, **Karthik D (III ECE)**. Their exceptional skills in cybersecurity and problem-solving earned them a **cash prize of Rs. 15,000/-**. This achievement highlights the students' expertise in Capture the Flag (CTF) competitions and their ability to tackle complex cybersecurity challenges. Their success is a testament to the strong technical foundation and competitive spirit nurtured at **St. Joseph's Institute of Technology**.



## SMARTATHON 2025



A team of four students from the **Department of Electronics and Communication Engineering** secured **First Prize** in the Smartathon, held from **February 28 to March 1, 2025**. The team, named **Volans**, comprised **Vimalan S, Vasanth S, Sanjay T, and Walter Viwin J**, all **second-year ECE students**. Competing under the domain **Sustainable Smart World**, they developed an innovative project titled **V-MAPS**, which stood out among numerous entries. Their outstanding performance earned them a **cash prize of Rs. 10,000/-**, recognizing their **creativity and technical expertise**. The team was mentored by **Dr. S. Tephillah, Associate Professor of ECE**, who provided guidance throughout the competition. Their success showcased the department's emphasis on **practical learning and cutting-edge technological advancements**. The achievement further solidified ECE students' presence in national-level hackathons, fostering **innovation and excellence**.

# ALUMINI TALK



The **Department of Electronics and Communication Engineering** conducted an alumni talk on "**Strategies for Entrepreneurship**" on February 27, 2025. The session was exclusively organized for E-Cell students to enhance their entrepreneurial skills. **Ms. Charulatha Venkatesan**, an alumnus from the 2019-2023 batch and an **IT Support Associate at IRIS Software Groups**, was the keynote speaker. She shared valuable insights on effective entrepreneurial strategies, emphasizing practical implementation. The event provided aspiring entrepreneurs with guidance and motivation to navigate the business world successfully.





# STUDENT ACHIVEMENT

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THE CHOICE OF  
DISCIPLINED  
TOPPERS

Our **IBM Z** Ambassador  
Leading the Tech  
Revolution

Invited by IBM to visit  
India Systems Development Lab  
(ISDL)

One of the 6 IBM Z  
Ambassadors selected from  
INDIA

Engaged with IBM Z Software  
CTO and VP and discussed  
on student engagement in  
IBM Z

**SAKSHI R**  
DEPT OF ECE  
BATCH : 2022-26  
IBM Z AMBASSADOR

YOUR  
BIG  
YEAR

IBM Z

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Sakshi R, a student from the **Department of ECE (Batch: 2022-26)** at **St. Joseph's Institute of Technology**, was honored as an **IBM Z Ambassador**. She was among the **six IBM Z Ambassadors selected from India** and was invited by **IBM** to visit the **India Systems Development Lab (ISDL)**. During her visit, she engaged in discussions with the **IBM Z Software CTO and Vice President** on enhancing student engagement in IBM Z technologies. She also interacted with industry experts, gaining insights into **cutting-edge innovations and advancements** in the field. The visit provided a valuable platform for networking with professionals and fellow ambassadors from across the country. Her achievement highlights the institution's focus on fostering technical excellence and industry collaborations. Sakshi's selection as an **IBM Z Ambassador** stands as a testament to her **dedication and expertise** in emerging technologies. The Department of ECE congratulated her on this remarkable accomplishment and wished her success in future endeavours.

## National Level Technical Symposium

Students from the Department of ECE at St. Joseph's Institute of Technology demonstrated their technical excellence by securing top positions in various intercollegiate competitions.

S. NO	NAME	YEAR	DATE	EVENT	COLLEGE	PLACE WON
1.	Navina R Nithin Visva M Nandha A	II	4/2/2025	Circuit Wars	Chennai Institute of Technology, Chennai	I (Rs.2000/-)
2.	Shyamalavannan G Karthik D	III	8/2/2025	CTF Quest	Bannari Amman Institute of Technology, Sathyamangalam, Erode	I (Rs.750/-)
3.	Naveen Raj K Jay Akash H	III	12/2/2025	Zap It Right	Chennai Institute of Technology, Chennai	I (Rs.1000/-)
4.	Aswin K Balaji B	III	28/2/2025	Radio Wheels (RC Racing)	Chennai Institute of Technology, Chennai.	I (Rs.2000/-)
5.	Aswin K Balaji B Dharukesh M	III	27/2/2025	Trail Track	Chennai Institute of Technology, Chennai.	I (Rs.1000/-)
6.	Evangelin Emeema S Barun Balaji C Jestina Kiruba Rani	III	21/2/2025	Robo-Line Follower	Easwari Engineering College,	I (Rs.1000/-)
7.	Agnes A Aravind S Deva Priya V	III	21/2/2025	Robo-Line Follower	Easwari Engineering College,	II (Rs.700/-)

## STUDENT ACHIVEMENT



Deepak Kumaran A, Devatharsan S K, and Balachander D, second-year students from the Department of ECE, achieved a remarkable feat by securing the II Prize in a Paper Presentation competition. The event was held at Chennai Institute of Technology, where they showcased their technical expertise and innovative ideas. Their outstanding presentation earned them a cash prize of Rs. 2000/-. This achievement highlights their dedication and passion for research and innovation in the field of Electronics and Communication Engineering.



Suji S, Sam Judson J, and Tharaneeshwaran M , second-year **students from the Department of ECE**, have won the **II Prize** in a **Paper Presentation** competition. The event provided them with an excellent platform to showcase their research and technical knowledge. Their presentation was recognized for its innovation and depth, earning them a **cash prize of Rs. 1500/-**. This achievement reflects their hard work and commitment to academic excellence. Their success serves as an inspiration for fellow students in the field of **Electronics and Communication Engineering**.



## STUDENT ACHIVEMENT

Shyamalavannan G, a **III-year student from the Department of ECE**, secured the **First Prize** in the **FACT CTF 2025** competition. The event was organized by the **Forensic Analysis Club & Triage of Amrita** at their Chennai campus on **January 29, 2025**. Demonstrating exceptional skills in forensic analysis and cybersecurity, he outperformed several participants to claim the top position. His outstanding performance earned him a **cash prize of Rs. 3500/-**. This achievement highlights his expertise and dedication in the field of **cybersecurity and digital forensics**.

Shyamalavannan G, a **III-year student from the Department of ECE**, has once again showcased his exceptional cybersecurity skills by winning **First Prize** in the **ExploitX CTF** competition. The event was held at **Chennai Institute of Technology, Chennai**, on **February 12, 2025**. Competing against talented participants, he demonstrated outstanding expertise in ethical hacking and cybersecurity challenges. His remarkable performance earned him a **cash prize of Rs. 1000/-**. This achievement further solidifies his growing reputation in the field of **cybersecurity and Capture The Flag (CTF) events**.



Karthik D, a **III-year student from the Department of ECE**, secured the **Second Prize** in the **ExploitX CTF** competition. The event took place at **Chennai Institute of Technology, Chennai**, on **February 12, 2025**. His impressive skills in cybersecurity and problem-solving helped him excel in the highly competitive challenge. For his outstanding performance, he was awarded a **cash prize of Rs. 500/-**. His achievement highlights the growing interest and expertise of ECE students in the field of **cybersecurity and ethical hacking**.

## STUDENT ACHIVEMENT



Prajith Raj K, **II-year student from the Department of ECE**, won the **Second Prize** in the **Rubik's Cube competition**. His exceptional problem-solving skills and speed in solving the cube earned him this recognition. The competition tested participants on their ability to solve the puzzle in record time under competitive conditions. His success showcases the analytical and cognitive abilities of ECE students beyond academics.

# STUDENT ACHIVEMENT

## HACKINDIA 2025



Four students from the **Department of Electronics and Communication Engineering** participated in **HackIndia 2025**, India's biggest **Web3 & AI Hackathon** held from **February 28 to March 1, 2025**. The participants are:

- 1.Parimelazhagan (III ECE B)
- 2.sivaprakasam (III ECE C)
- 3.Roshan (III ECE C)
- 4.Vigneshwaran (III ECE C)

The event, organized by **Singularity NET**, brought together talented individuals to develop **cutting-edge AI and blockchain solutions**. The ECE students actively engaged in innovative problem-solving, collaborating with peers from across the country. Their participation highlighted the department's commitment to **technological advancements and real-world applications** in emerging fields.



Additionally, **Team Matrix** from the **Department of ECE** also took part in the prestigious hackathon, showcasing their technical expertise. The team members are:

1.**Dharukesh M** (III ECE A)

2.**Aravind S** (III ECE A)

3.**Agnes A** (III ECE A)

4.**Evangelin Emeema S** (III ECE A)

They worked together to tackle challenging real-world problems using AI-driven solutions. Their innovative approach and teamwork reflected the strong foundation in technology fostered by the department. Their active participation in **HackIndia 2025** reinforced the department's vision of encouraging students to explore advanced fields like **AI, blockchain, and Web3 technologies**.



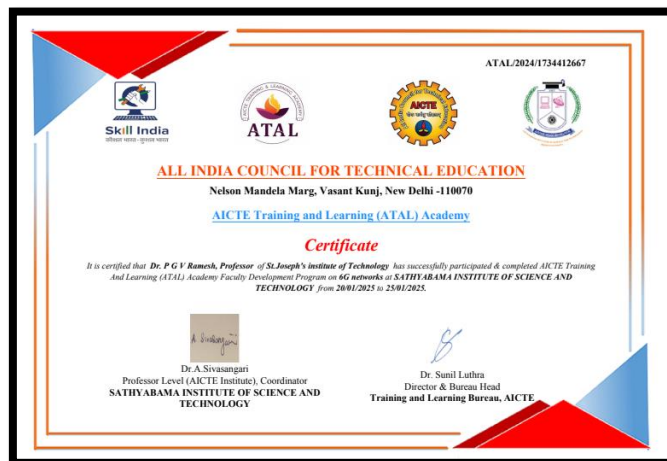
## CSIR-CFTRI FOOD HACKATHON-MYSORE



**Third-year ECE students, Sushmitha V, Varshini G, and Samyuktha B, actively participated in the Food Hackathon organized by CSIR-Central Food Technological Research Institute (CSIR-CFTRI) and Siddaganga Incubation Foundation. The event took place on February 27 and 28, 2025, in Mysore, bringing together innovative minds to develop solutions for the food industry. The students showcased their technical skills and problem-solving abilities in food technology applications. Their participation reflected the Department of ECE's commitment to interdisciplinary learning and innovation. This experience provided them with valuable insights into emerging food technologies and industry-driven research.**

# STAFF ACHIEVEMENT

## FDP



Dr. P.G.V. Ramesh, Professor and Head of the Department from St. Joseph's Institute of Technology, successfully participated in the AICTE Training and Learning (ATAL) Faculty Development Program on 6G Networks. The FDP was conducted by Sathyabama Institute of Science and Technology from January 20, 2025, to January 25, 2025. This program provided valuable insights into the advancements and future prospects of 6G technology, enhancing his expertise in next-generation communication networks.



Dr. John Johannah J, Associate Professor at St. Joseph's Institute of Technology, successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program. The program focused on **Advanced Semiconductor Devices and AI Chips – Research Opportunities and Challenges**. It was conducted at **Sri Venkateswara College of Engineering** from **19.12.2024 to 21.12.2024**. This



achievement reflects his dedication to continuous learning and research in advanced semiconductor technologies.



Dr. Senthil Murugan M, Associate Professor from Dept of ECE, successfully participated in the AICTE Training and Learning (ATAL) Faculty Development Program on 6G Networks. The FDP was conducted by Sathyabama Institute of Science and Technology from January 20, 2025, to January 25, 2025. This program provided valuable insights into the advancements and future prospects of 6G technology, enhancing his expertise in next-generation communication networks.



Mrs. Swetha S, Assistant Professor from St. Joseph's Institute of Technology, successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on "Emerging Trends in Optimal Sizing of Electric Vehicles and Hydrogen Fuel Cell Vehicles for Sustainable Future." The FDP was conducted at SRM Madurai College for Engineering & Technology from January 27 to February 1, 2025. This program provided valuable insights into the latest advancements in electric vehicle technology and sustainable energy solutions.

## PEER REVIEWER

Dr. C. Gnana Kousalya, Professor in the Department of ECE, has been acknowledged for her contribution as a peer reviewer for the book chapter manuscript titled "ML Tools for Safety in Automotive Financial Risk Management," currently under consideration for publication in AI's Role in Enhanced Automotive Safety. Her role in the rigorous double-anonymized peer review process ensures high-quality academic contributions to IGI Global Scientific Publishing. This recognition highlights her commitment to advancing research and supporting scholarly publications in the field of AI and automotive safety.

## PAPER PUBLICATION

Dr. G. Rohini, Professor from the Department of ECE, has published a research paper in **IEEE Explore** titled **"A new symbol timing and carrier frequency offset estimation algorithm for OTFS for B5G."** The paper explores advanced signal processing techniques for Orthogonal Time Frequency Space (OTFS) modulation in beyond 5G (B5G) networks. Her research provides a novel approach to improving timing synchronization and frequency offset estimation in next-generation wireless systems.

Dr. G.S. Uthayakumar, **Associate Professor from the Department of Electronics and Communication Engineering**, published a research paper in **Elsevier** on **February 21, 2025**. The paper, titled **"Optimized Mixed-Order Relation-Aware Recurrent Neural Networks-Based CAD Model for Skin Cancer Detection and Classification,"** was published in a journal with an **impact factor of 7.2**. This study introduces an advanced **AI-driven CAD model** leveraging **recurrent neural networks** to enhance the accuracy of skin cancer detection and classification.

Mrs. J. Silva Deena and Mr. C. Mohan, assistant professors from the **Department of Electronics and Communication Engineering**, published a research paper on **"Design of a Dual Band Star Shaped Electromagnetic Bandgap (EBG) for 5G Communication."** The paper was published with the **DOI number 10.1109/ICMCSI64620.2025.10883634** on **February 20, 2025**. Their research focused on enhancing 5G communication using an innovative dual-band EBG structure.

## PATENT PUBLICATION

Mr. D. Suresh, Assistant Professor from the Department of ECE, has published a patent titled **"Quantum and AI-Based Machine Learning Framework for Robotic Intelligence."** The patent, published on February 7, 2025, with application number 202541007135 A, focuses on integrating quantum computing and AI for advanced robotic decision-making. This innovation is expected to enhance automation, intelligence, and efficiency in robotics. His contribution marks a significant advancement in the intersection of AI, quantum computing, and robotics.

Dr. C. Mohan, Assistant Professor from the **Department of Electronics and Communication Engineering**, successfully published a patent titled **"Swarm Intelligence and AI-Driven Robotics: Revolutionizing Agriculture with Autonomous Systems."** The patent was filed on **February 17, 2025**, under the application number **202541013289** and was officially published on **February 21, 2025**. The research focused on integrating **AI and swarm intelligence** to enhance autonomous agricultural systems for improved efficiency and productivity.

Dr. C. Mohan, Assistant Professor from the **Department of Electronics and Communication Engineering**, successfully published a patent titled **"Enhanced Safety and Monitoring System for Smart Fruit Quality Assurance."** The patent was filed under the application number **202541013290** and was officially published on **February 21, 2025**. This innovation focuses on improving **fruit quality assessment** using advanced monitoring and safety mechanisms. The system aims to enhance the efficiency of **agricultural product evaluation**, ensuring better standards in food safety and quality control.

## INVITED SPEAKER

**LOYOLA-ICAM**  
COLLEGE OF ENGINEERING AND TECHNOLOGY (LICET)  
(Autonomous)  
LOYOLA CAMPUS, NUNGAMBAKKAM, CHENNAI-600034

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
IN ASSOCIATION WITH  
IEEE Student Branch Chapter and IEEE Photonics Society  
Organises  
Guest Lecture on  
**Advancing Technology and Innovation to Empower Artisanal Deep-Sea Fishers**

**Mr. Vincent Joseph**  
CHAIRMAN AND HOD OF R & D: CENTRE FOR RURAL INNOVATION AND TECHNOLOGY DEVELOPMENT  
FOUNDER CHAIR IEEE ADSF SIGHT

**Mr. Bino J M.E (Ph.D)**  
CHAIR IEEE ADSF SIGHT  
ASSISTANT PROFESSOR, DEPARTMENT OF ECE, St. Joseph's Institute of Technology

🕒 11:15 AM - 12:45 PM  
📅 03-03-2025  
📍 F11

📱 LICET : LICET www.licet.ac.in @loyolaicam\_official

The Department of Electronics and Communication Engineering at Loyola-ICAM College of Engineering and Technology (LICET) successfully organized a guest lecture on March 3, 2025. The event was conducted in association with the IEEE Student Branch Chapter and IEEE Photonics Society. The session focused on "Advancing Technology and Innovation to Empower Artisanal Deep-Sea Fishers." Mr. Bino J



Assistant Professor from St. Joseph's Institute of Technology, also delivered an insightful talk as the Chair of IEEE ADSF SIGHT.

The speakers emphasized the importance of technological advancements in supporting the livelihood of artisanal deep-sea fishers. The session provided valuable insights into sustainable fishing practices and the role of innovation in the marine sector. Faculty members, students, and IEEE enthusiasts actively participated in the discussion. The lecture fostered an engaging learning experience and encouraged students to explore research opportunities in the field. The event concluded with a vote of thanks, acknowledging the contributions of the esteemed speakers and organizers.



# PLACEMENTS



Students from the Department of Electronics and Communication Engineering at **St. Joseph's Institute of Technology** secured placements at **Renault Nissan Automotive India Private Limited**. They were offered the role of **Graduate Engineer Trainee (GET)** for the batch **2021-2025**. The selected candidates received a **CTC of Rs. 4 Lakh per annum**. This achievement highlighted the institute's strong industry connections and placement support. The students' dedication and technical skills played a crucial role in securing these opportunities. Their success further strengthened the department's reputation for producing industry-ready engineers.

The placement at **Renault Nissan Automotive India Private Limited** marked a significant milestone for the students and the institution. Their rigorous academic training and hands-on experience contributed to their successful selection. The recruitment process tested their technical expertise, problem-solving abilities, and industry knowledge. The institute's continuous efforts in skill development and career guidance played a vital role in preparing them for this opportunity. This achievement serves as an inspiration for upcoming batches to strive for excellence in their careers.

## PLACEMENTS

*We Make You Shine*  
**St. JOSEPH'S INSTITUTE OF TECHNOLOGY**  
(An Autonomous Institution)  
St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

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**BATCH 2021-2025**

**MR. INFANT LUVANGO P**  
**Associate Java Developer**

**St. JOSEPH'S GROUP OF INSTITUTIONS**  
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**The Choice of Disciplined Toppers**

Mr. Infant Luvango P from the **Department of Electronics and Communication Engineering** at St. Joseph's Institute of Technology secured a placement at **Synapse India**. He was offered the role of **Associate Java Developer** with an impressive **CTC of 6 LPA**. His strong programming skills and problem-solving abilities played a crucial role in achieving this milestone. The rigorous training provided by the institution helped him excel in the recruitment process. His selection was the result of continuous hard work and dedication throughout his academic journey. St. Joseph's Institute of Technology has once again demonstrated its excellence in producing industry-ready professionals. The college's placement cell provided extensive support in preparing students for high-profile job opportunities. His achievement has inspired many juniors to aim for top placements in reputed companies. Faculty members and peers congratulated him on his remarkable success. This placement stands as a testament to the quality education and industry-oriented training at the institution.



## WEBPAGES FOR THE LATEST UPDATES



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