

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

THE CIRCUIT CHRONICLE NEWSLETTER AUGUST- 2025





RETROSPECTA'25

An alumni reunion



MESSAGES

Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.

Chairman

It gives me immense pleasure to commend the staff and the students of the Department of Electrical and Electronics Engineering for this excellent Newsletter. This Newsletter maps the merits and milestones accomplished by the department. I sincerely hope that the efforts put in by the students and the staffs help them in all their future endeavors.

Mrs. S. Jessie Priya M.Com.

Executive Director

This Newsletter is testament to the academic excellence of the college which in myriad ways is ingrained in our culture. It gives me great pleasure to see the exceptional potential of the students of the Department of Electrical and Electronics Engineering, in various extra-curricular activities as well as in academics. I congratulate the staff and the students on bringing out this wonderful Newsletter.

Mr. B. Shashi Sekar M.Sc.

Managing Director

I am very happy that our institution has shown a marvelous presentation of the activities through the Newsletter. I congratulate the staff and students for their excellent effort. Today, as we march towards a technological world, we aspire to open new vistas in the field of education for our students and this Newsletter helps us in our efforts.

Dr. S. Arivazhagan M.E., Ph.D.

Principal

I take this opportunity to laud the efforts of all those who were involved in the making of this Newsletter from the Department of Electrical and Electronics Engineering, St. Joseph's Institute of Technology. I would also like to appreciate the relentless efforts of our teachers for giving their best in bringing out the best in each student helping them achieve their goals.

Dr. G. Sreekumar M. Tech., Ph.D.

Dean Academics

It is inspiring to see the Department of Electrical and Electronics Engineering reach new heights through the efforts documented in this Newsletter. This publication not only reflects the department's commitment to academic and technical excellence but also its focus on nurturing well-rounded individuals. Congratulations to everyone who contributed to this outstanding achievement, paving the way for even greater successes ahead.

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Vision

To become a well renowned department in the field of Electrical and Electronics Engineering by imparting quality education and inculcating ethical values among students to serve the global society.

Mission

The department strives

M1: To provide strong fundamental knowledge through effective teaching- learning process to make the students competent in the field of Electrical and Electronics Engineering

M2: To enable students with intellectual resources to conduct innovative research in order to meet the challenges faced by the industries and mankind

M3 To promote the skill so emerging technologies through industry-interactions to attain sustained placements and other career opportunities

M4: To inculcate ethically bound professional standards, skills of leadership and management for a successful career.

Program Educational Objectives

- 1. To provide foundation in their fields such as circuit theory, field theory, control theory and computational platforms.
- 2. To enhance the designing skills for the evolution of new technology in the Electrical and Electronics domain.
- 3. To equip the students to work in inter disciplinary groups for enhancing professional skills.
- 4. To motivate and prepare the students for a successful career in the industry or higher education.
- 5. To create awareness for life long learning and inculcate professional ethics.

Program Specific Outcomes

- 1. Our graduates will be able to understand the basic concepts related to engineering and technology with enhanced problem solving skills.
- 2. Our graduates, with high proficiency in Electrical and Electronics Engineering will be able to exhibit technical knowledge in industrial and entrepreneurial focus.
- 3.Our graduates can translate the effects of professional values and ethics in accordance with Electrica and Electronics Engineering domain, to create sustained environment for social

RETROSPECTA'25 - ALUMNI REUNION

The Alumni Reunion 2025 titled "RETROSPECTA-25" was held on 30th August 2025. The event served as a memorable gathering, bringing together alumni from various batches to reconnect, share experiences, and celebrate their journey with the institution. It provided a vibrant platform for networking, strengthening alumni bonds, and reflecting on cherished memories while inspiring the current students with their success stories.

















MOCK INTERVIEW

On 2nd August 2025 our department organized a Mock Interview Session for the III and IV year students. The session was conducted by Distinguished Alumni, who are well-placed in reputed organizations. The event aimed to prepare students for campus recruitment and industry expectations by simulating real interview experiences. Alumni shared valuable insights on resume building, technical preparation, communication skills, and confidence building. Students actively participated and received constructive feedback on their performance. The session proved highly beneficial, boosting the students' readiness for upcoming placements and strengthening alumni-student interaction.













STUDENT ACHEIVEMENT

Our students brought laurels to the department by winning 1st Place in Blaze A Trail 2.0 – an internal hackathon conducted in association with READ Automation.

The competition served as a platform for young innovators to showcase their problemsolving abilities and technical skills, where our team impressed the judges with their creativity, dedication, and teamwork. This remarkable achievement reflects the spirit of innovation nurtured in our department and stands as an inspiration for fellow students to actively engage in such opportunities, bridging the gap between academic knowledge and real-world applications.

S. No.	STUDENTS NAME	PROBLEM	PRIZE WON
		STATENENT	
1	SHARAN SHAAGITHIYA		
2	VIGNESHWARAN G	AI Vision Based Object	
3	VIMAL A	Segregation by color	1 st PLAZE
4	SURRENDAR	and size on conveyor	(Rs. 10,000/-)
5	KAMLESH J	lines	
6	GAYATHRI K U		

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



For Securing FIRST Position at BLAZE-A-TRAIL 2.0



PS Statement 2:

Al Vision based Object Segregation by Color and Size on Conveyor lines

TEAM MEMBERS:

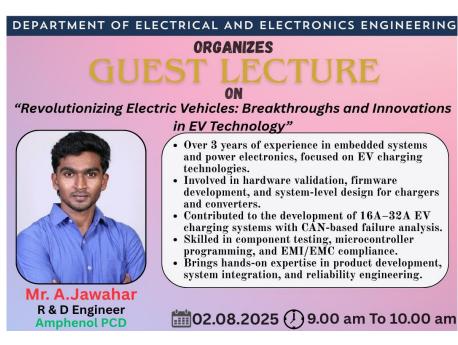
- 1. SHARAN SAAGITHIYA. S
- 2. VIGNESHWARAN, G
- 3. VIMAL. A
- 4. SURENDAR. R
- 5. KAMLESH. J
- 6. GAYATHRI. K.U

MENTOR: Dr.P.Nisha

DATE:

28\08\2025 - 29\08\2025

On 2nd August 2025, a Guest Lecture on "Revolutionizing Electric Vehicles: Breakthroughs and Innovations in EV Technology" was organized for II Year students. The session was delivered by Mr. A. Jawahar, R&D Engineer, Amphenol PCD, who shared his expertise in embedded systems, power electronics, EV charging technologies, and hardware validation. He highlighted the development of advanced EV charging systems, system integration, and reliability engineering. The lecture provided students with valuable insights into the latest innovations in the field of electric vehicles.





On 6th August 2025, a Guest Lecture on "Exploring Career Paths in Electrical Engineering" was conducted for the 4th year students. The session was delivered by Ms. Edhayadharshini R, Senior Developer – SAP BODS Consultant, Cognizant, who is also a proud alumna from 2014-2018 batch. She shared her professional journey and provided valuable insights into industry expectations, technical skills, and career preparation strategies. The lecture proved highly beneficial in motivating students and enhancing their placement confidence.

ORGANISES GUEST LECTURE Exploring Career Paths in Electrical Engineering



- Working as a Senior Developer at Cognizant with skills in Requirements Analysis and BODS.
- Former Application Development Senior Analyst at Accenture, involved in full-cycle development.
- Knowledgeable in HR areas like Talent Management, Engagement, HRIS, and Compensation.
- Familiar with business processes such as BPO, HR Policies, and Mergers & Acquisitions.
- Skilled in Coaching, Interviewing, Onboarding, and Employee Relations.

Edhayadharshini Ramesh Senior Devoloper Cognizant Technology (10.00 Am to 11.00 Am



On 25th August 2025, a Guest Lecture on "Emerging Trends and Innovations in Information Technology" was organized for the III year students. The session was delivered by Mr. Sesa Balaji, System Engineer at Tata Consultancy Services, and a proud alumnus of the 2016–2020 batch. He highlighted the latest advancements in artificial intelligence, cloud computing, cybersecurity, and data analytics, emphasizing their growing role in industry. The lecture provided students with valuable exposure to real-world applications and career opportunities. The interactive session inspired students and strengthened alumni bonding with the institution.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ORGANIZED

CUEST LECTURE

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"EMERGING TRENDS AND INNOVATIONS IN INFORMATION TECHNOLOGY"



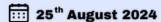


Sesa Balaji D G Systems Engineer TATA Consultancy Services





- Understand latest IT trends and innovations.
- · Apply modern technologies to real problems.
- · Adapt to rapid digital advancements.
- Aware of ethical and social impacts in IT.



🕔 10:00 a.m - 11:30 p.m



On 26th August 2025, a Guest Lecture on "Future Trends and Career Opportunities in Industrial Automation" for the III year students. The session was delivered by Mr. Sathish Kumar G, Managing Director of GV Automation Solution. He elaborated on the rapid growth of industrial automation, Industry 4.0, robotics, and smart manufacturing, while also highlighting the skill sets required to excel in this domain. Students gained insights into potential career paths and the importance of continuous learning. The lecture proved highly informative, motivating students to explore emerging opportunities in automation.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ORGANISED GUEST LECTURE

"Future Trends and Career Opportunities in Industrial Automation"



Managing Director
GV Automation Solution





OUTCOMES:

- Understand upcoming technologies in industrial automation.
- Explore career paths in automation, robotics, and Al.
- Develop skills for smart manufacturing and Industry 4.0.
- Gain awareness of global opportunities in automation.



26 August 2025



(10:00 am to 12:00 pm

STUDENT WORKSHOP

On 7th and 8th August 2025, a two day Student Workshop on "VLSI Design and Verification" and "Java Programming" was organized for the 3rd year students. The VLSI Design and Verification session, was conducted by TARAS Systems and Solutions, focusing on circuit design, testing, and verification techniques. The Java Programming session, was conducted by Syasan's Career Analytics, providing hands-on training in programming concepts and applications. The workshop enabled students to gain practical exposure, strengthen technical knowledge, and bridge the gap between theory and industry practices.







NGO VISIT

On *6th August 2025*, Second-year students visited *New Hope & New Life* Trust - Children Home at Perumbakkam, chennai, as part of their NGO outreach activity. The visit aimed to promote social responsibility among students. They engaged with school children through educational activities, awareness programs, and donated essential learning materials.







On 29th August 2025, a technical exploration event titled "ElectroQuest – A Challenge Driven Technical Exploration Event" was organized. The event featured two exciting activities – Electri-Grid, an electrifying Sudoku twist where participants arranged electrical units in rows, columns, and blocks without repetition, and Watt's True?, a myth-busting challenge to uncover the truth behind electricity and electronics. The event provided an engaging platform for students to sharpen their logical thinking, technical knowledge, and problem-solving skills in a fun and interactive way.

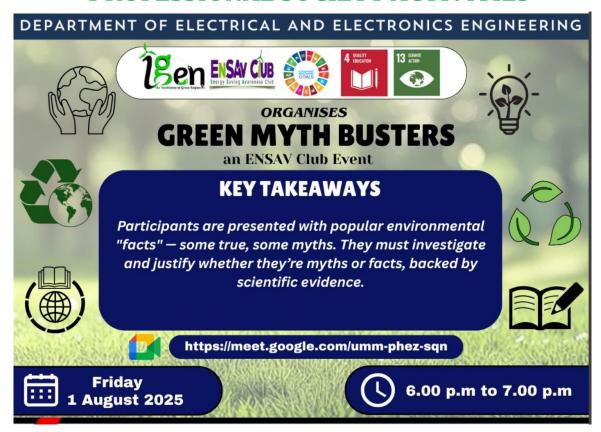




On 26th August 2025, in association with the Institution of Engineers (India), a guest lecture on "Local Currents to Global Circuits: Career Journey from St. Joseph's to New Jersey" was organized. The session was delivered by Mr. Aniruth S (2011–2015 Batch), Lead Data Engineer, Automatic Data Processing, New Jersey, USA. He shared his inspiring career journey, global industry experiences, and provided valuable guidance to students on building successful career paths in engineering and technology.











DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IEEE INDUSTRIAL ELECTRONICS SOCIETY SBC16181E

ORGANISED



FOR





06/08/2025

Q CONTROL SYSTEM LAB

○ 1.30 TO 3.00PM



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



in association with









Spark It Up!







KEY TAKEAWAYS

Ignite your creativity and technical prowess through interactive challenges in circuit innovation, rapid prototyping, and real-time problem-solving. Hone your skills in electrical design, debugging and optimization while fostering critical thinking and teamwork. This event emphasizes sustainable solutions, energy efficiency and innovative engineering practices — empowering you to turn bright ideas into powerful realities.







https://meet.google.com/umm-phez-sqn



THURSDAY 14 AUGUST 2025



06:00 p.m - 07:00 p.m

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING





in association with The Institution of Engineers (India) organises



ElectroQuest- A challenge driven, technical exploration Event





Charge up your brain in this electrifying Sudoku twist!
Arrange electrical units so each row, column, and 3×3 block holds all 9 without repetition!!.

Watt's True? :-

Spark your knowledge and bust the myths! Uncover the truth behind electricity and electronics like a real myth-buster!!.







29 AUGUST, 2025 9:30 A.M



VENUE: LIBRARY CONFERENCE

ALUMNI TALK

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Organized

ALUMNI TALK

ON

Unlocking Opportunities Beyond the Campus

BY

OUR ALUMNI





LOKESH K
(Batch 2021-2025)
Junior Hardware Engineer
Switching Battery

For EEE Students



04 August 2025



ORGANIZED

ALUMNI TALK

ON

"LEADING IN THE XR ERA: CHALLENGES AND OPPORTUNITIES"



KISHORE KUMAR XR Operation Lead Zealous Services Batch [2014 -2018]

00000

07/08/2025



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ORGANIZED

ALUMNI TALK

ON

STRATEGIC STEPS TO CRACK MU SIGMA PLACEMENTS

FOR IV YEAR STUDENTS



GAYATHRI P (Batch 2021-2025) Graduate Engineer Trainee Renault Nissan Technology (Placed at Mu Sigma)





https://meet.google.com/umm-phez-sqn



10th AUGUST 2025



() 11.00 a.m - 12.00 p.m

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Organized

ALUMNI TALK

ON

Navigating the Path to Professional Success

BY

OUR ALUMNI



SAIVARSHINI R
(Batch 2021-2025)
Packaged App
Development Associate
Accenture



For EEE Students



23 August 2025

STAFF ACHEIVEMENTS

- Dr.D.Kirubakaran published the research paper entitled as "High-Performance Biodegradable Films from Bamboo Derived Cellulose Nanofibres and Silk Fibroin: Engineering Sustainable Polymer Composites" in Journal of Polymer & Composites
- Dr.D.Kirubakaran published an book chapter in the title "Convolutional Neural Networks for Brain- Computer Interfaces".
- Dr. S. Hemalatha presented the research paper entitled as "Leaf Images Assisted Potato Plant Disease Detection using Deep-Learning with Features Fusion" at the First International Conference on Frontier Technologies and Solutions (ICFTS), organized by St. Joseph's College of Engineering.
- Dr. S. Hemalatha presented the research paper entitled as "Automatic Detection of Happy/Sad Face Images with DL-An Analysis" at the First International Conference on Frontier Technologies and Solutions (ICFTS), organized by St. Joseph's College of Engineering.
- Dr.S.Hemalatha presented the research paper entitled as "SVM-based Framework is Designed for Precise On-Chip Power Analysis in CMOS VLSI Circuits" at the 8th International Conference on Trends in Electronics and Informatics (ICOEI-2025), organized by SCAD College of Engineering and Technology.
- Dr.S.Hemalatha published the research paper entitled as "Application of Network Reduction Technique in Power System" in Journal of Neonatal Surgery, Vol. 14, Issue 23s (2025)
- **Dr.P.Anbarasan** acted as Session Chair at the *IEEE Sponsored 11th International Conference on Electrical Energy Systems (ICEES-2025)*, organized by the Department of Electrical and Electronics Engineering, SSN College of Engineering, Chennai, India on 22nd August 2025.

STAFF ACHEIVEMENTS

- Dr.P.Anbarasan published an Indian patent in the title "Blockchain Based Food Supply Chain Tracking System for Enhanced Transparency and Traceability", Application no: 202541078468
- Dr.P.Nisha published an Indian patent in the title "Machine Learning And Python-Based Electric Ground Compaction Monitoring Device For Civil Construction Sites", Application no: 202541070876
- Dr.P.Nisha published an Indian patent in the title "IoT Enabled Robotic Smart Water Pumping And Electricity Monitoring System Leveraging Nvidia High Performance Computing", Application no: 202541077112
- Dr. N. P. Gopinath authored the research article titled "Performance Improvement of Twin Wedge Solar Still with Diverse Wick Materials and Sensible Heat Storage Mediums towards Sustainable Desalination for Clean Water Production" published in an Elsevier journal-Energy Storage indexed in Web of Science (WoS) with a remarkable Impact Factor of 9.8.
- **Dr. N. P. Gopinath,** Assistant Professor is recognized as a **Supervisor** for guiding Ph.D scholars in faculty of Electrical Engineering Under Anna University.
- Dr. N. P. Gopinath and Mr. I. Cephas received *Best Paper Award* for their paper entitled as "*Dynamic Voltage Boost 9L Common Ground Inverter with Low Voltage Stress*" at the International Conference on Circuit Power and Computing Technologies (ICCPCT-2025), hosted by Baselios Mathews II College of Engineering, Kollam. Their contribution reflects the department's commitment to research excellence and innovation.
- Dr. N. P. Gopinath presented the research paper entitled as "Single-Stage High Boost Five-Level ANPC Inverter with Low Device Count" at the 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFet 2025), organized by the Centre for Energy and Environment, MNIT Jaipur

EDITORIAL

STAFFS

- 1. Dr. D. Kirubakaran
- 2. Dr. S. Hemalatha
- 3. Dr. P. Anbarasan
- 4. Mr. R. Manivannan
- 5.Mr. I. Cephas
- 6.Mr.S.Karthick
- 7.Dr.P.Nisha
- 8.Dr.N.P.Gopinath

STUDENTS III Year

- 1. Harinee M
- 2. Anjali Varshika VS

STAY CONNECTED WITH US THROUGH OUR WEB PAGES



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https://youtube.com/@st.josephsinstituteoftec hneee?si=zN38e-9nLKAd-3g



https://www.facebook.com/share/3mu5cTiHU3zRYecX/



https://www.instagram.com/eee sjit?igsh=cm5ycWc2bW9jNmoy

Learn more on our department's website:

https://stjosephstechnology.ac.in/web/eee/



St. JOSEPH'S INSTITUTE OF TECHNOLOGY

We Make You Shine
(AN AUTONOMOUS INSTITUTION)
OMR, CHENNAI - 119



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Batch Toppers

Upto Sem VI (Batch 2022 - 2026)



KARPPAKAMALAR S 312422105024 9.04



SHARON JULIET P F 312422105047 9.00



AKASH K 312422105004 8.96

Upto Sem IV (Batch 2023 - 2027)



NIKITHAA KUMAR 312423105046 9.09



BHUVANESHWARI M 312423105010 8.98



JAYAKRISHNAN S 312423105029 8.85

Upto Sem II (Batch 2024 - 2028)



PRAGADHEESH S 312424105029 GPA 9.08



INDHUJA S 312424105016 GPA 8.92



MAHESHWARI G 312424105020 GPA 8.82







Department of EEE



About College

- ✓ St. Joseph's Institute of Technology is a higher education institution in OMR, Chennai, India, established in the year 2011 and offers 7 UG programmes CSE, ECE, EEE, IT and MECH and 1 PG Programme Business Administration.
- ✓ St. Joseph's Institute of Technology is in its 13th year of educational service, in 2024.
- ✓ Anna University has granted Permanent Affiliation for 4 UG Programmes CSE, ECE, IT and MECH from the year 2020-21.
- Anna University has approved 4 Departments CSE, ECE, IT and MECH as Recognized Centre for Research for offering Ph. D/MS (by research).
- Five courses offered since inception namely B.E. CSE, ECE, EEE, Mech. Engg. & B. Tech. IT have been accredited by NBA in 2017 in a shortest span of 6 years since its establishment, which ascertains the quality of our education.
- Our College was granted Autonomous status from the year 2022-23 for a period of 10 years.
- Our college has been approved for establishment AICTE Idea Lab one among 95 Labs in India with an investment of Rs.
 1.10 Crore to impart skill based training of our students from First Year onwards.
- Our college secured an All India Rank 134 (by AICTE Internshala) among 2000+ colleges participating in student internships for the year 2023 and 48th Rank out of 249+ colleges participated in South Zone.
- Our graduate outcomes include 80 % of placements in each academic year and 15 % admission to higher studies.
- ✓ For 5 consecutive years, our institution has been awarded with 4 out of 5 stars by the Institutions Innovation Council (IIC), Ministry of Education, Government of India.
- ✓ We are recognized as the "Best Exam Preparatory Centre" for conducting Linguaskill examinations by Cambridge Assessment English.
- ✓ We are consistently awarded "Best Employability Award" every year from 2020 by Aspiring Minds.
- Our institution is approved as a "Skill Development Center" with grant of Rs. 24 Lakhs for establishing Skill Hub under the Pradhan MantriKaushalVikasYojana (PMKVY 4.0)
- St. Joseph's Institute of Technology is a recognizedRemote center for conducting training programs by IIT Bombay and Nodal center of ISRO-IITs outreach programs to conduct live and interactive courses.
- Ours is a recognized Remote center for conducting training programs by IIT Bombay and Nodal center of ISRO-IITs outreach
 programs to conduct live and interactive courses.
- Our institution is selected under National level "UnnatBharathAbyanProgramme" by MoE Government of India and Skill & Personality Development Program center (SPDP) for SC/ST students by AICTE.
- ✓ We Received a total grant of Rs.21 Lakhs under MSME Idea Hackathon 3.0 (Women) sanctioned by the Ministry of Micro, Small & Medium Enterprises, Government of India.
- Our institution is a recipient of distinguished awards and recognitions namely Innovative Project Award and Youth Conclave Award from INAE, Hackathon Award, IEEE and Premier Institution Award from the Institution of Engineers (India).

