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



# **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

## **THE CIRCUIT CHRONICLE**

### **NEWSLETTER**

#### **JANUARY - 2025**



**TO KNOW MORE ABOUT THE DEPARTMENT ACTIVITIES  
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<https://stjosephstechnology.ac.in/web/eee/>

# 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 skills on 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 interdisciplinary 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 lifelong 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 Electrical and Electronics Engineering domain, to create sustained environment for social growth

## PLACEMENT DETAILS

The Department of Electrical and Electronics Engineering congratulates students on their placements! Your dedication and hard work have paid off. We thank the placement teams, mentors, and industry partners for their support. Wishing you success in your careers. Congratulations!

S. No.	NAME OF THE STUDENT	NAME OF THE COMPANIES PLACED
1.	AISHWARYA P	<ul style="list-style-type: none"> <li>• HEXAWARE TECHNOLOGIES</li> <li>• INFOSYS</li> <li>• COGNIZANT</li> </ul>
2.	AZIM AHAMED	<ul style="list-style-type: none"> <li>• MU SIGMA</li> </ul>
3.	DHARUN ANAND S	<ul style="list-style-type: none"> <li>• BNP PARI BAS</li> </ul>
4.	DHEVIN ANANDA RAJ A S	<ul style="list-style-type: none"> <li>• MAGNETIC AND CONTROLS</li> </ul>
5.	GAYATHRI P	<ul style="list-style-type: none"> <li>• MU SIGMA</li> <li>• ACCENTURE</li> <li>• RENAULT NISSAN</li> <li>• LTI-MINDTREE</li> </ul>
6.	HARSHA G	<ul style="list-style-type: none"> <li>• INFOSYS</li> </ul>
7.	JEEVA MURUGAN A	<ul style="list-style-type: none"> <li>• MITSOGIO</li> <li>• LTI-Mindtree</li> </ul>
8.	KARTHICK S	<ul style="list-style-type: none"> <li>• INFOSYS</li> </ul>
9.	MUTHU SELVAM S	<ul style="list-style-type: none"> <li>• MAGNETIC AND CONTROLS</li> </ul>
10.	NARMADHA K	<ul style="list-style-type: none"> <li>• INFOSYS</li> </ul>
11.	RAJA VIKARAMA ASWIN K R S	<ul style="list-style-type: none"> <li>• INFOSYS</li> </ul>
12.	RAJKUMAR K	<ul style="list-style-type: none"> <li>• INFOSYS</li> </ul>
13.	SAIVARSHINI R	<ul style="list-style-type: none"> <li>• HEXAWARE TECHNOLOGIES</li> <li>• ACCENTURE</li> </ul>
14.	SENTHIL VELAN R	<ul style="list-style-type: none"> <li>• AVASOFT</li> <li>• KEYENCE</li> </ul>
15.	VARSHINI KANNA M	<ul style="list-style-type: none"> <li>• AVASOFT</li> <li>• HEXAWARE TECHNOLOGIES</li> </ul>
16.	VIGNESHWAR R	<ul style="list-style-type: none"> <li>• ACCENTURE</li> </ul>



## INDUSTRY INTERACTIONS

On January 10, 2025, Dr. S. Hemalatha from the Department of Electrical and Electronics Engineering visited industry leaders as part of an Industry-Institute Interaction initiative. She met with Mr. M. Dhanasekar, Senior General Manager and Mr. Varun Deshmukh, Director of Daeseong India Automotive Private Limited, to explore potential collaborations for skill development programs. The discussions aimed at enhancing the curriculum and providing students with practical industry exposure and career opportunities in the automotive sector. The focus areas included:

1. **Opportunities for Student Internships** – Paving the way for students to gain hands-on experience in cutting-edge technologies.
2. **Industrial Visits** – Facilitating exposure to real-world industrial processes and innovations.
3. **Guest Lectures** – Enriching academic learning with expert insights from industry stalwarts.
4. **Collaborative Research Projects** – Advancing technology and innovation through joint efforts between academia and industry.

The event marked a significant step forward in fostering partnerships that promise to benefit both the department and its students, reinforcing the department's commitment to academic excellence and industry readiness.



**Mr. M. Dhanasekar, Senior General Manager - HR**

Dr. S. Hemalatha from the Department of Electrical and Electronics Engineering met with Mrs. Bhuvana, Training and Placement HR at Hyundai Mobis, as part of an Industry-Institute Collaboration initiative. The discussion focused on expanding student placement and internship opportunities, strengthening industry-academia partnerships.

Key areas of discussion included:

1. **Internship Programs** – Providing hands-on exposure to advanced automotive technologies.
2. **Industry-Aligned Training** – Enhancing student skill sets to meet industry requirements.
3. **Expert Talks & Technical Workshops** – Bridging the gap between academics and real-world applications.

This engagement aimed at equipping students with practical experience and career opportunities, ensuring they are well-prepared for roles in the automotive industry.



**Mrs. Bhuvana, Training & Placement HR**

On January 18, 2025, Dr. P. Anbarasan from the department visited Eaton Power Quality and Integra Software Solutions in Pondicherry for an Industry-Institute Interaction Initiative. The visit explored power management, energy efficiency, and software integration in automation, fostering industry-academia collaboration and research opportunities while gaining insights into industry trends. The discussions were centered around innovative solutions for pressing global challenges, focusing on key areas such as:

1. **Industry Exposure:** Students gain insights into real-world applications of Power management and industrial automation.
2. **Internship Opportunities:** The visit opens doors for potential internships at Eaton Power Quality and Integra Software Solutions.
3. **Research Collaboration:** Opportunities for research projects in advanced power systems and software integration.
4. **Career Prospects:** Strengthened ties with industry provide future career opportunities in the fields of electrical engineering, power systems, and automation.





## STUDENT ACHIEVEMENTS

### CONFERENCE PUBLICATIONS

We extend our heartfelt congratulations to our students for their remarkable achievements in publishing research papers in a variety of esteemed conferences. This exceptional accomplishment reflects not only your intellectual curiosity and commitment but also your unwavering perseverance and dedication to academic excellence. By sharing your innovative ideas and rigorous research findings, you have contributed significantly to the academic community, pushing the boundaries of knowledge and opening new avenues for exploration. These publications are a testament to your ability to think critically, analyze complex problems, and present solutions that resonate with the broader scientific and technical community. Each paper you publish adds value to the world of research and amplifies the department's vision of nurturing scholarly brilliance.

S. No.	Reg. No	Name	Title of Paper	Conference and Date	Name of the Organizing college
1.	312421105016	Gayathri P	Design of Nine-Level Switched Capacitor-Based Inverter with Low Voltage Stress	Fourth International Conference On Power, Control And Computing Technologies, 20-22 January 2025	National Institute of Technology , Raipur
2.	312421105019	Harsha G	Design and Analysis of a Boost Type Nine-Level Inverter with Reduced Switch and Capacitor Voltage Stress	Advances in Electrical, Computing, Communications and Sustainable Technologies, 9-10 January 2025 ICAECT 2025	Shri Shankaracharya Technical Campus, Chhattisgarh
	312421105043	Saivarshini R			
3.	312421105052	Steffy Gran J	Optimization of Energy Management in Electric Vehicle using AI	Advances in Electrical, Computing, Communications and Sustainable Technologies, 9-10 January 2025 ICAECT 2025	Shri Shankaracharya Technical Campus, Chhattisgarh
4.	312421105008	Chandru A	Smart Wheelchair For Paralysed Patient Using Advanced IoT	International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics 16 January 2025	BNM Institute of Technology, Bengaluru
	312421105002	Amala Gracewin S			



## GREEN ENERGY CLUB ACTIVITIES

The Department of Electrical and Electronics Engineering embarked on a transformative journey by organizing Green Energy Club for II-year students on 29<sup>th</sup> January 2025. It's a collective endeavour aimed at promoting sustainable practices and exploring the potential of renewable energy solutions. This initiative not only broadened the students' horizons but also imparted invaluable lessons that resonate far beyond the confines of their academic pursuits.

The inception of the Green Energy Club stemmed from a shared vision among like-minded individuals from various department-an aspiration to channel the passion of the students for environmental conservation into actionable initiatives.

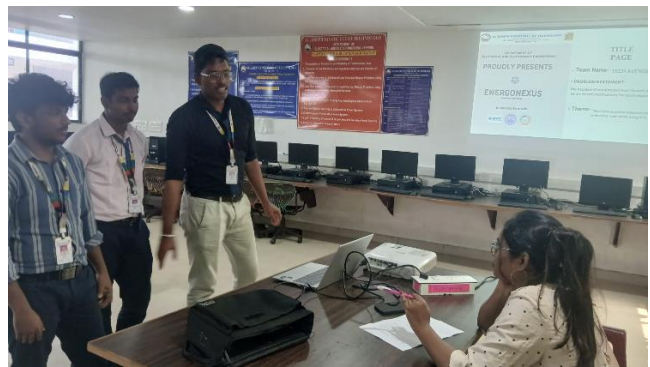
From its nascent stages, the club served as a platform for fostering collaboration, creativity, and a deep sense of responsibility towards the environment. Through, various activities the students endeavoured to raise awareness about the pressing challenges of climate change and the pivotal role of green energy solutions in mitigating its impact.





## IEEE ACTIVITY-RENEWAL OF STUDENT CHAPTER

Our college hosted an inspiring **IEEE (Renewal of industrial Electronics students chapter)** event featuring our Alumni **Monica M**, a Digital Specialist Engineer at Infosys, as the keynote speaker. She delivered an insightful speech on the empowerment of the industrial sector, highlighting the role of technology, digital transformation, and innovation in shaping industries. She emphasized the importance of skill development, adaptability, and emerging technologies like AI and IoT in modern industries. Her speech motivated students to enhance their technical expertise and embrace industry advancements. The event was highly engaging, leaving attendees with valuable knowledge and inspiration for future career growth in the industrial sector.





## IEEE ACTIVITY-ELECTROFEST

On 22nd January 2025, Our college successfully organized the **IEEE-Electrofest**, a highly engaging technical event aimed at enhancing students' problem-solving skills. The event featured **Circuit Debugging** and a **Technical Quiz**, which saw enthusiastic participation from the students. The circuit debugging competition tested participants' analytical abilities in identifying and rectifying faults in electrical circuits. The technical quiz challenged students with thought-provoking questions on electrical and electronics concepts. The event provided a platform for students to showcase their technical knowledge and teamwork. IEEE Electrofest was a resounding success, fostering learning, innovation, and a spirit of healthy competition among budding engineers.



## IEEE ACTIVITY-TECHPULSE

On 28th January 2025, The Electrical and Electronics Engineering department of our college successfully conducted **IEEE-TechPulse**, an event for first-year students, focusing on renewable energy sources. The event featured two rounds: a **Quiz Round**, which tested participants' knowledge of sustainable energy, solar, wind, and other green technologies, and a **Circuit Round**, where students designed and analyzed basic renewable energy circuits. The event aimed to enhance awareness and practical understanding of clean energy solutions. With enthusiastic participation, TechPulse encouraged students to explore innovations in renewable energy. The event was a great success, fostering technical curiosity and promoting sustainable engineering solutions among first-year students.





## NGO VISIT

On January 30, 2025, the II Year students visited **Paradise Home, Muttukadu**, to support an orphanage. Students and faculty contributed essential supplies and spent time with the children, fostering a sense of love and care. The event included distributing food, clothes, and educational materials, along with engaging games and activities. It aimed to instill social responsibility, empathy, and kindness among students. The initiative successfully created a warm and joyful atmosphere, reflecting the department's commitment to making a positive community impact. The event left lasting memories for both the children and students.



## NGO VISIT

On 4<sup>th</sup> January 2025, our NGO organized a visit to **Maria's Old Age Home, St. Thomas Mount**, for III Year students to bring joy and support to the elderly residents. We were warmly welcomed and spent the day engaging in heartfelt conversations and listening to their stories. A cultural program with music, games, and interactive activities brought smiles to their faces. We also distributed care packages with essentials, making them feel valued and loved. The visit emphasized the importance of emotional support and how small gestures can make a difference. The experience was fulfilling, reinforcing our commitment to giving back to the community and caring for the elderly.





## **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

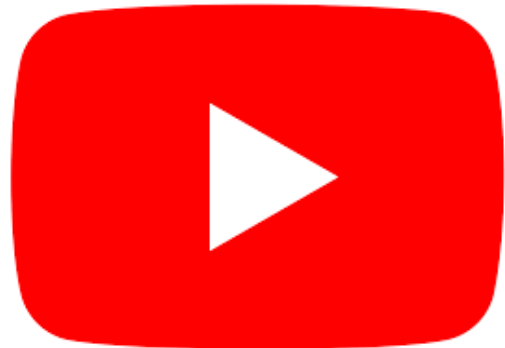
### **II YEAR STUDENTS**

1. Akshiyapriyadharshini S S
2. Anjali Varshika VS
3. Aravind R
4. Divesh K
5. Harinee M

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<https://youtube.com/@st.josephsinstituteoftechneee?si=zN38e-9nLKAd-3g>



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



<https://www.instagram.com/eeesjit?igsh=cm5ycWc2bW9jNmoy>

## Learn more on our department's website :

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



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Batch Toppers

**Upto Sem VII (Batch 2021 - 2025)**



**AISHWARYA P**  
312421105001  
9.55



**GAYATHRI P**  
312421105016  
9.18



**DINESH M M**  
312421105013  
9.06

**Upto Sem V (Batch 2022 - 2026)**



**AKASH K**  
312422105004  
9.01



**KARPPAKAMALAR S**  
312422105024  
8.96



**SHARON JULIET P F**  
312422105047  
8.94

**Upto Sem III (Batch 2023 - 2027)**



**NIKITHAA KUMAR**  
312423105046  
9.18



**YASIRA BEGUM K**  
312423105060  
8.90



**BHUVANESHWARI M**  
312423105010  
8.85



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*The Choice of*  
**Disciplined Toppers**





## About College

- ✓ We motivate and prepare our students to excel in all aspects.
- ✓ 12 years of academic excellence in Engineering Education, offering 6 UG programs and 1 PG program.
- ✓ Secured 39 University Ranks with 1 Silver medal since inception.
- ✓ The courses offered (B.E. - CSE, ECE, EEE, Mech. Engg. & B.Tech.-IT) have been accredited by NBA in 2017 in the shortest span of 6 years since inception, which ascertains our quality.
- ✓ Rated 4.5 Stars by the Institution's Innovation Council (IIC) of Ministry of Education, Govt. of India.
- ✓ Ranked at 'Performer Band' in Atal National level Ranking (ARIIA -2021) by Ministry of Education, Govt. of India.
- ✓ Associate Member of ICT Academy, Department of Information Technology, Government of Tamilnadu.
- ✓ 'National Employability Award' by Aspiring Minds (SHL), received every year since 2021.
- ✓ Recognized as the Nodal Centre of ISRO-IIRS outreach program to conduct live and interactive courses.
- ✓ Recognized Skill Development Centre for Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Ministry of Skill Development & Entrepreneurship (MSDE) implemented by National Skill Development Corporation.
- ✓ Selected under the National level "Unnat Bharath Aabyan Programme" by MHRD Government of India and "Skill and Personality Development programme Centre (SPDP)" for SC/ST students by AICTE, New Delhi.
- ✓ Recognized as the 'Best Exam Preparatory Centre' for conducting Business English Certificate (BEC) examination by Cambridge ESOL for the past years in India & one among 25 South Asia Best Preparatory Centres.
- ✓ Received notable awards and recognitions namely Innovative Project Award and Youth Conclave Award from INAE, Hackathon Award, IEEE and TNSCST Student Project Fund.
- ✓ Approval has been granted by AICTE for IDEA lab worth Rs 110 lakhs under self-finance scheme.
- ✓ Received 2 International Travel Grants from IEEE Photonics society by our students for attending International Conferences in USA.
- ✓ Received grants from SERB & AICTE for conduction of IEEE supported International conference & MSME for startup project.
- ✓ Conducted 7 International Conferences periodically since 2016.
- ✓ Excellent Sports recognitions at National and International level.