



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



School of Electrical and Communication Department of Electrical and Electronics Engineering

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Founders



Col. Prof. Dr. Vel R. Rangarajan
*B.E. (Elec), B.E. (Mech), M.S. (Auto), D.Sc.,
Founder President & Chancellor*



In the Fond Memory of
Dr. Sagunthala Rangarajan
*M.B.B.S.,
Foundress President*



LEADERSHIP



Dr. Rangarajan Mahalakshmi Kishore
Chairperson & Managing Trustee

I am delighted to see the Department of Electrical and Electronics Engineering bring out this vibrant edition of News Bite. This newsletter reflects the academic excellence, research endeavours, and innovative spirit that define our university. As technology rapidly evolves, I encourage everyone to continuously push boundaries, cultivate a mindset of lifelong learning, and apply technical knowledge to solve real-world challenges. I congratulate the editorial team and the entire EEE department for their dedicated efforts in showcasing our collective achievements and vision.

Wishing you all continued success and growth!



LEADERSHIP



Prof. Dr. Rajat Gupta
Vice Chancellor

It is a matter of great pride to see the EEE Department publish another edition of News Bite, highlighting our academic and research milestones. In an era driven by technological advancement, our focus remains on fostering critical thinking, research excellence, and sustainable innovation. I extend my heartiest congratulations to the faculty, students and editorial team for their stellar contribution to this newsletter.



Prof. Dr. E. Kannan
Registrar

I warmly congratulate the EEE Department on launching this insightful edition of News Bite. This platform beautifully captures the dynamic activities, student achievements and administrative excellence of the department. I wish the EEE team continued success in inspiring our academic community through such meaningful initiatives.



LEADERSHIP



Dr. R. S. Valarmathi
Prof. & Dean-SoEC

It gives me immense pleasure to present this edition of News Bite, showcasing the vibrant academic and research accomplishments of our students and faculty. This newsletter captures our unwavering commitment to innovation, technical excellence and meaningful collaboration. I deeply appreciate everyone who contributed to bringing this edition together. Best wishes to the EEE community as we continue to strive for excellence and achieve greater milestones ahead!



Dr. S. Ramesh
Professor & HoD

I am delighted to present this edition of News Bite, featuring the research activities, innovative projects, and achievements of our EEE Department. This newsletter reflects the enthusiasm, creativity and dedication of our students and faculty. I sincerely appreciate the collective efforts that continue to strengthen our department and foster a culture of excellence, innovation and continuous learning. My best wishes to the entire faculty, staffs, students and EEE community.

VISION OF THE DEPARTMENT

To provide intellectual curiosity in the field of Electrical and Electronics engineering that produces skilled interdisciplinary engineers to serve the society

MISSION OF THE DEPARTMENT

- M1: To inculcate knowledge among the students through comprehensive curriculum.**
- M2: To enrich the academic experience in terms of flexibility, teamwork, design skills, practice and industrial trainings.**
- M3: To produce competent graduates suitable for a successful career in Industry and Research.**

PROGRAMME EDUCATIONAL OBJECTIVE

- PEO1: Design and analyse electrical and electronic systems by applying the knowledge of mathematics and engineering.**
- PEO2: Provide practical solution to multidisciplinary societal problems through innovative ideas.**
- PEO3: Secure positions and continue as valued, creative and proficient employees in a wide variety of fields and industries for a rewarding career.**

PROGRAMME SPECIFIC OUTCOME

- PSO1: Apply fundamental of mathematics, physical sciences and Electrical & Electronics engineering to analyze and solve complex real-world problems.**
- PSO2: Design, develop and implement Electrical, Electronics and Allied engineering systems to meet the demands of industry and suggest solutions for social needs.**



Seminar on Emerging Electrical Technologies and Innovative Approaches to Societal Problems

The Department of Electrical and Electronics Engineering (EEE), in association with the Institution's Innovation Council (IIC) – Vel Tech and National Innovation and Startup Policy (NISP), organised a seminar on “Emerging Electrical Technologies and Innovative Approaches to Societal Problems” on 15 February 2025 at the Video Conference Hall. The session focused on emerging developments in electrical technologies and their potential applications in addressing real-world societal challenges. The expert interaction provided students with valuable insights into innovation, problem-solving, entrepreneurship, and technology-driven solutions.

Impact of the program

The programme enhanced awareness of emerging electrical technologies and their real-world applications. It encouraged innovative thinking to address societal challenges through technological solutions. Participants gained insights into sustainable energy, energy efficiency, and modern electrical systems. The seminar motivated students and faculty to pursue research and contribute to sustainable development.



Event benefits

1. Enhanced knowledge of emerging electrical technologies and their practical applications. Improved understanding of modern advancements in electrical engineering.
2. Developed problem-solving and critical-thinking skills to address societal challenges. Encouraged innovative approaches to real-world problems.
3. Promoted research, creativity, and technological innovation among participants. Inspired the adoption of sustainable solutions for societal development.
4. Improved awareness of energy-efficient technologies and renewable energy solutions. Encouraged participants to adopt sustainable practices for a greener future.



seminar on “Entrepreneurship & Innovation as Career Opportunity”

The Department of EEE, in association with the Institution’s Innovation Council (IIC) - Vel Tech and National Innovation and Startup Policy (NISIP), organised a seminar on “Entrepreneurship & Innovation as Career Opportunity” at the Video Conference Hall. The workshop highlighted the importance of entrepreneurship and innovation in shaping successful career pathways. It provided students with insights into startup development, opportunity identification, and converting innovative ideas into viable ventures. The session motivated students to explore entrepreneurial opportunities and develop an innovation-driven mindset.

Impact of the program

The session motivated students to explore entrepreneurship and innovation as promising career opportunities. It enhanced awareness of startup development, business planning, and identifying market opportunities. The programme encouraged creative thinking, problem-solving, and the practical implementation of innovative ideas. It inspired students to develop entrepreneurial skills and contribute to economic growth through startups.



Expert talk on Future trends in Renewable energy

The Department of EEE organized an expert talk on “Future Trends in Renewable Energy” on 17th April 2025. The session featured Ms. Nikita Shankar, a distinguished alumna from the 2016-2017 batch. She is currently employed at Hitachi Energy and shared her professional experiences with the students. The talk highlighted emerging trends, technological advancements, and future opportunities in renewable energy. Around 40 students participated in the session and gained valuable insights into sustainable energy solutions and career prospects in the field.

Impact of the program

The session enhanced students’ awareness of emerging trends and advancements in renewable energy technologies. It provided valuable insights into sustainable energy solutions and their real-world applications. Students gained knowledge about career opportunities in the renewable energy sector. The interaction encouraged students to explore research, innovation, and energy-efficient technologies.



Expert talk on Introduction to AI and ML for Electrical Engineering

An expert session on “Introduction to AI and ML for Electrical Engineering” was conducted on 20th March 2025. The session featured Mr. Vyshak, a distinguished alumnus from the 2017-2018 batch. He is currently working at Fractal Analytics. He introduced students to the fundamentals of Artificial Intelligence (AI) and Machine Learning (ML) and their applications in electrical engineering. The session provided valuable insights into emerging technologies and their role in advancing electrical engineering practices.



Expert talk on “The Future of Drones: Emerging Technologies and Applications”

About the session

An expert talk on “The Future of Drones: Emerging Technologies and Applications” was organized by the Department of EEE. The session was delivered by Mr. Sarath Babu from Sri Easwari Scientific Solution. He shared insights into emerging drone technologies and their applications across various industries. The talk enhanced students’ awareness of drone innovations, practical applications, and future career opportunities in this field.

Event Benefits

- Enhanced students’ knowledge of emerging drone technologies and their latest advancements.
- Provided insights into drone applications in industries such as agriculture, healthcare, and surveillance.
- Improved awareness of the role of drones in automation, monitoring, and data collection.
- Inspired students to explore research, innovation, and career opportunities in drone technology.

Outcome

- Students gained knowledge of emerging drone technologies and their practical applications.
- Participants understood the role of drones in various industrial and societal applications.
- The session encouraged students to explore innovation and research in drone technology.
- Students developed awareness of future career opportunities in the drone and automation sectors.



SPECIALIZED AND VALUE ADDED COURSE

Specialized course on “Energy Storage Systems”

Department of EEE in association with Office of International Relations conducted an one credit specialized course on “Energy Storage Systems” for the students during 3rd - 5th March, 2025. Dr. Shuichi Torii, Professor, Kumamoto University, Japan handled the course.

The course provided students with valuable insights into advanced energy storage technologies and their applications in modern power systems. It covered emerging developments in battery technologies, renewable energy integration, and efficient energy management. The programme enhanced students’ technical knowledge and encouraged them to explore research opportunities in sustainable energy solutions.



Industrial Visit

Department of EEE organized an industrial visit to Satish Dhawan Space Centre (SDSC), SHAR, Sriharikota, on 28th February 2025 (IV-1254) as part of the curriculum activity. And practical knowledge.



Department of EEE organized an industrial visit to Dellner India Pvt. Ltd., Chennai, on 18th March 2025 (IV-1262). A total of 51 students and 3 faculty members participated in the visit.



Department of EEE organized an industrial visit to North Chennai Thermal Power Station on 28th March 2025 (IV-1270). A total of 53 students including 2nd, 3rd, and 4th year, and 3 faculty participated in the visit.



Higher study

R. S. Aswinkumar (VTU11999) pursued M.Tech in Laser and Electro Optic Communication at the Defense Institute of Advanced Technology, Pune. **Pranav Kumar Rowolo** (VTU17929) pursued M.Tech in Smart Manufacturing at the Indian Institute of Science (IISc). **Dakymen Kongri** (VTU17037) pursued M.Tech in Power Electronics at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

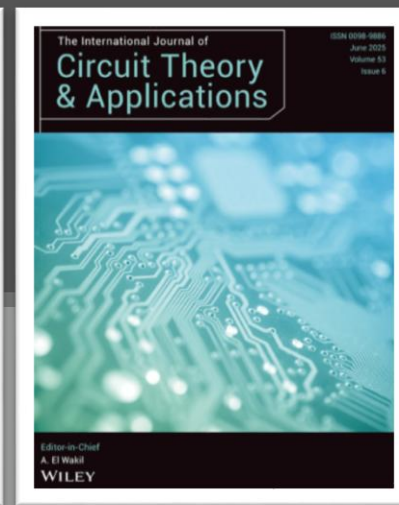
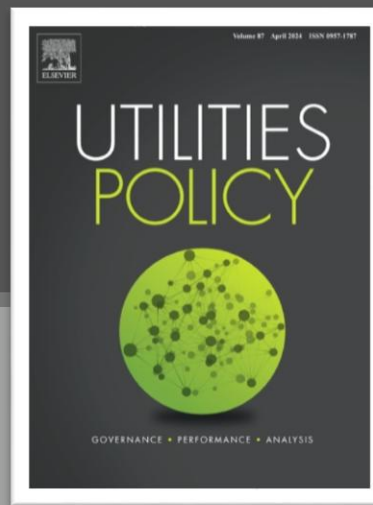


STUDENT PUBLICATION

EEE UG and PG students presented their research at peer-reviewed Scopus-indexed international conferences, resulting in publications.

Final-year student Pranav Kumar Rowlo (VTU17929) published in Utilities Policy (Elsevier), an SCI-indexed journal (Impact Factor: 4), under the mentorship of Dr. K. Karunanithi.

Majji Sai Manohar (VTU 23879) and PG student Angel Babita Muppidi (VTP 3866) published their research in the SCI-indexed International Journal of Circuit Theory and Applications (Impact Factor: 1.8)



STUDENT ACHIEVEMENTS

Department of EEE, final year student, Pranav Kumar Rowlo (VTU 17929), successfully qualified in GATE 2024 with Dual GATE Scores in Electrical Engineering (EE) and Electronics and Communication Engineering (EC).



PandiGujan R participated in the Clash of Code event at the national-level intercollegiate fest JUNO 2K25, organized by Guru Nanak College, on 6-7 March 2025.

K. Guhan presented a paper at the 2nd International Conference on Renewable Energy, Green Computing & Sustainable Development (ICREGCSD-2025), organized by CVR College of Engineering, Hyderabad, on 21-22 February 2025.

FACULTY ACHIEVEMENTS

Dr. P. Rajakumar, Assistant Professor, EEE, received the Best Paper Award at RITEEC 2025, held on 22-23 May 2025 at NIT Patna.

Dr. P. Baburao, Assistant Professor, EEE, won the Best Paper Award at RAEEUCCI-2025, technically co-sponsored by IEEE and organized by SRMIST, Kattankulathur, on 23-25 April 2025.

Dr. K. Karthikumar, Professor/EEE, secured a top 5% position in the 12-week NPTEL course “Transducers and Instrumentation” (Jan-Apr 2025).

Seven EEE faculty members received a Research Development Fund (RDF) of worth Rs 4,00,000 for their outstanding research contributions across various domains. . This recognition reflects their consistent efforts towards strengthening the research culture and academic excellence of the department. The sanctioned fund will support further research activities, innovation, and development of impactful projects.



PLACEMENTS

The placement achievement reflects the department's strong industry engagement, effective placement support, and consistent efforts towards students' career development.

Major Company

- L&T Technology Services
- Vestas
- Ohms Tech Engineer
- Foxcon
- Meil
- Nissi
- Illumine-i
- W3Global and more

CONGRATULATIONS



The Department of EEE maintains a steady placement record among students opting for campus placements. Strong industry collaborations provide students with diverse career opportunities. Dedicated placement training enhances students' technical, communication, and employability skills..



EDITORIAL BOARD

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Professor

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