



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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News Bite

Issue: 02



Founders



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



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. S. Salivahanan
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.**

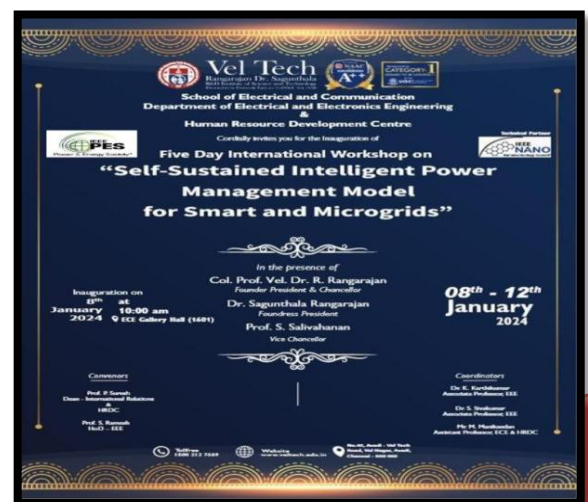


Workshop on Self-Sustained Intelligent Power Management Model for Smart and Microgrids

The Department of EEE at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology organized a five-day international workshop. The workshop was conducted in association with the Human Resource Development Centre (HRDC). The theme of the workshop was “Self-Sustained Intelligent Power Management Model for Smart and Microgrids.” The programme was held from 8th January to 12th January 2024. It provided participants with valuable insights into intelligent power management and advanced smart grid technologies.

Impact of the program

The programme enhanced participants’ knowledge of intelligent power management systems for smart grids and microgrids. It provided insights into sustainable energy solutions and efficient power distribution techniques. The workshop encouraged research and innovation in advanced electrical power systems. It promoted the development of energy-efficient and reliable power management solutions for future needs.



Event benefits

Enhanced knowledge of intelligent power management systems for smart grids and microgrids.

Improved understanding of sustainable energy integration and efficient power distribution.

Encouraged research and innovation in advanced power management technologies.

Provided insights into developing reliable, energy-efficient, and sustainable electrical systems.

Strengthened technical knowledge through expert insights and practical applications in smart grid technologies.

Promoted collaboration and knowledge sharing among researchers, faculty members, and industry professionals.



HIGHER-LEARNING INSTITUTE INTERACTION

Dr. Sheldon Williamson from the University of Ontario Institute of Technology, Canada, conducted the course “Electrical Energy Storage Systems” for a total duration of 15 hours, carrying 1 credit. The course was attended by the EEE students and focused on the fundamental concepts, technologies, and applications of electrical energy storage systems.

An industry-oriented course on “Wind Energy Technology for Electrical Engineering” was conducted by Deutsche WindGuard, with Dr. R. Kumaravel as the expert. The course covered wind energy conversion systems, and grid integration. Students gained practical insights into wind energy applications and emerging technologies, enhancing their understanding of sustainable and clean energy solutions.

STUDENT ACHIEVEMENT

First Position

Congratulations to **Sohaib Siddiq** for securing First Prize in the AMALGAM 2024 - Energy and Sustainability Competition, organized by METSA and IIT Madras, and the Ideathon - Mechanics 2024: Renewable Renaissance, organized by MEA and IIT Madras. His achievements reflect innovation, creativity, and a strong commitment to sustainable energy solutions.



Participation

Mohammad Haseeb participated in the national-level “Precise Energy” programme for students of the Kudankulam NPP region.

Dev Sharma participated in the national-level “Precise Energy” programme for students of the Kudankulam NPP region.

Sohaib Siddiq participated in the 2024 National-Level Open Hardware IoT Geospatial Hackathon, organized by FOSSEE OSHW and FOSSEE GIS Project, IIT Bombay.

Internship and In-Plant Training

A total of nine students successfully completed internships in reputed organizations, and in-plant training programmes to gain practical industrial exposure. These opportunities enabled students to strengthen their technical knowledge and develop an understanding of real-world engineering practices. In addition, 1 student has undertaken an internship abroad, providing valuable international academic and industrial exposure. Overall, these activities have enhanced students’ practical skills, professional competence, and career readiness.



FACULTY ACHIEVEMENTS

Best Paper Awards

Dr. Sivakumar S. of the department received the Best Paper Award for his outstanding research paper. This recognition highlights his significant contribution to research and academic excellence.



Research Funding

Two faculty members have successfully received a SEED Grant worth INR 3,58,000/-. This achievement reflects the department's strong commitment to research, innovation, and academic excellence.



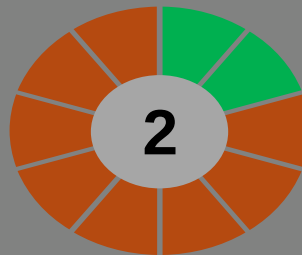
Dr. R. A. Priya
Assistant Professor
Amount Sanctioned:
INR 1,60,000/-



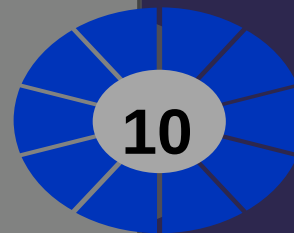
Dr. Hari Charan Nannam
Assistant Professor
Amount Sanctioned:
INR 1,98,000/-

Patent Details

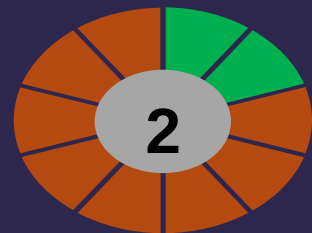
The department faculty have demonstrated strong innovation and research excellence through the publication of patents in emerging areas of technology societal needs.



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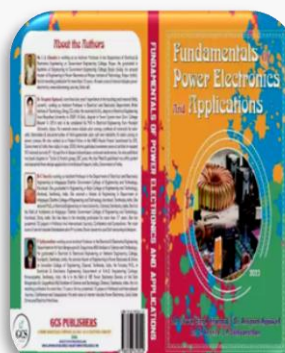
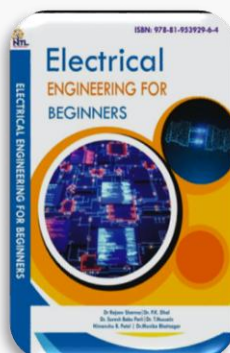
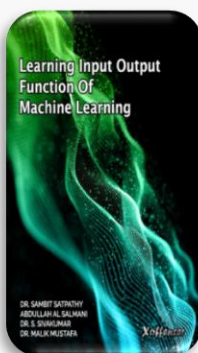
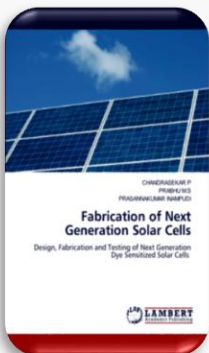
Published



Granted

Book Publication

Faculty members of the department have actively contributed to academic innovation and publishing several textbooks in emerging areas of technology.



Dr. P. Chandrasekar
(TTS2085)
Prof / EEE



Dr. P. K. Dhal
(TTS351)
Prof / EEE



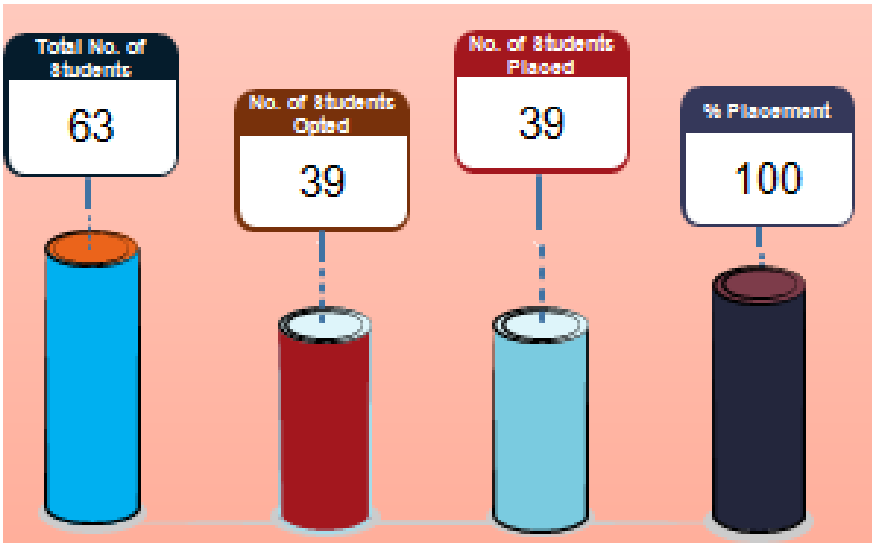
Mr. P. Sathyanathan
(TTS3056)
Asst. Prof / EEE



Dr. S. Sivakumar
(TTS1326)
Asso. Prof / EEE

Placement

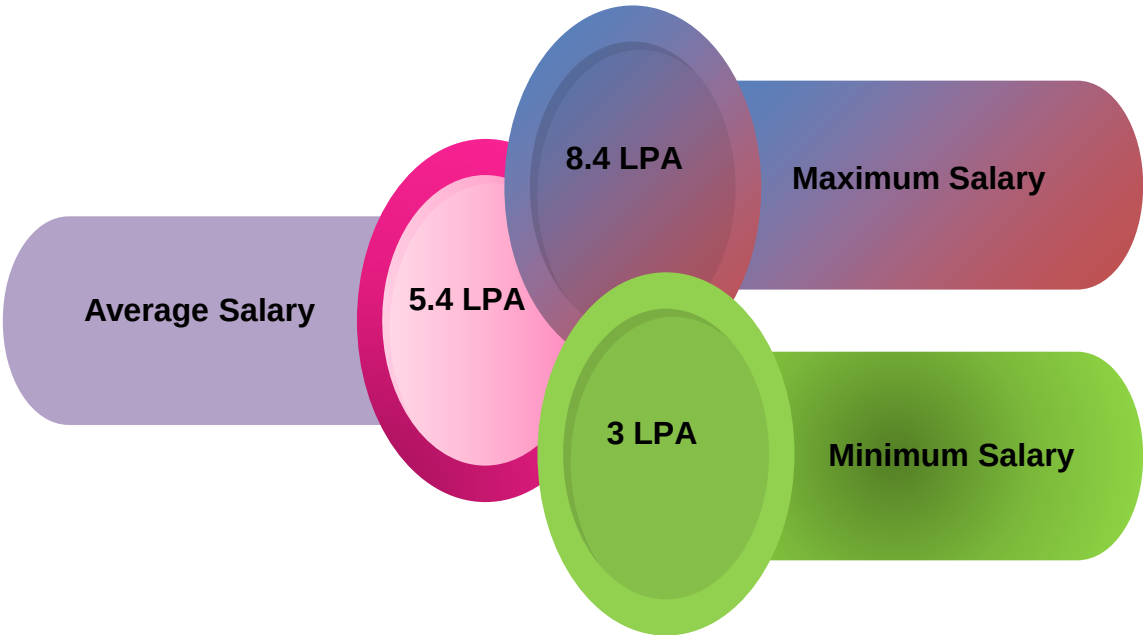
The department has achieved a 100% placement rate among students who opted for campus placements. This reflects the strong industry connect, quality training, and career-oriented education provided. The achievement highlights the students' employability, technical competency, and readiness to meet industry requirements.



The department's major recruiters include leading companies such as Zoho, Johnson, IBM, Capgemini, Hyundai, Titan, and Bosch. These industry partnerships provide students with diverse career opportunities across engineering, technology, manufacturing, and IT sectors.



The Department of EEE actively supports and prepares students to seize promising career opportunities. Dedicated training enhances students' technical skills, communication, and interview performance. The department takes pride in the achievements of all students selected through campus placements. Heartiest congratulations to all the placed students, and best wishes for their successful careers!



EDITORIAL BOARD

FACULTY TEAM

Dr. S. Ramesh
Professor & HOD

STUDENTS TEAM

Gadde Ramya
Keerthana
(VTU22189)
A.Surya
(VTU24218)

