



### Dean's Message



It is with great pride that I Dr V Chandra Sekhar, Professor in CSE & Dean – Academics share the achievements of the Electrical and Electronics Engineering (EEE) Department. This year, the department has made significant strides in research, innovation, and academic excellence.

Our faculty continue to deliver top-notch education, while our students excel in both academic and co-curricular activities. Through strong industry partnerships and interdisciplinary collaborations, the EEE Department is helping to shape the future of electrical and electronics engineering. The department's focus on emerging technologies like renewable energy, power electronics, and automation is preparing students to meet the challenges of tomorrow.

I commend the continued efforts of our faculty, staff, and students in contributing to the growth of the department, and I look forward to even greater success in the future.

With Best wishes

Dr V CHANDRA SEKHAR

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### Vision and Mission

#### VISION:

To become a center of excellence in electrical engineering that fosters learning, research and innovation with social relevance.

#### MISSION:

- To build an environment that cultivates employability skills with human values and topics.
- To establish a collaborative interaction with industry for laboratory development, research and innovation.
- To create an ambience that encourages active participation of students and staff in the pursuits towards excellence.



# Electrifying Excellence

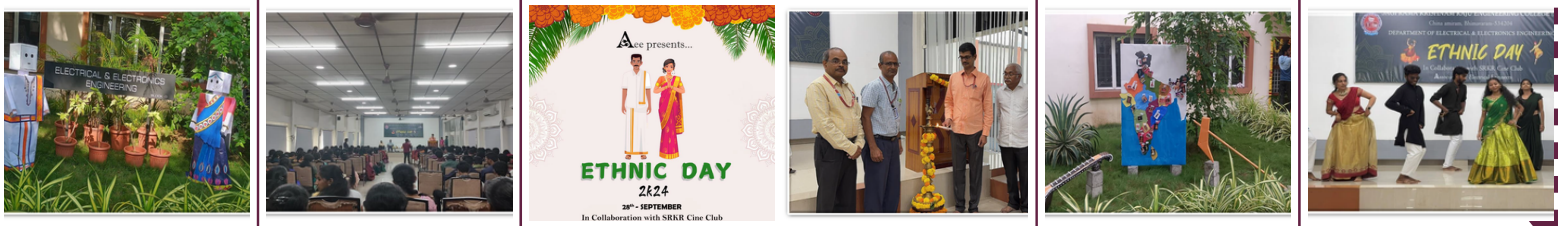
## AEE EVENTS

### TEACHERS DAY



The students of the EEE department celebrated Teacher's Day 2024 by expressing their gratitude through heartfelt gestures. Teachers were presented with gifts as a token of appreciation for their dedication and guidance. They participated in various activities, adding to the joy of the celebration. Their involvement and cheerful moments made the day truly special for both students and teachers.

### ETHNIC DAY



The Department of EEE celebrated Ethnic Day 2024 on September 28th, embracing the richness of tradition and culture. The event was filled with vibrant colors, traditional attire and lively performances, creating a joyful and festive atmosphere. Students enthusiastically participated in music and dance, showcasing the cultural diversity within the department. With a perfect blend of tradition and celebration, Ethnic Day became a memorable occasion, fostering unity and leaving everyone with cherished moments.

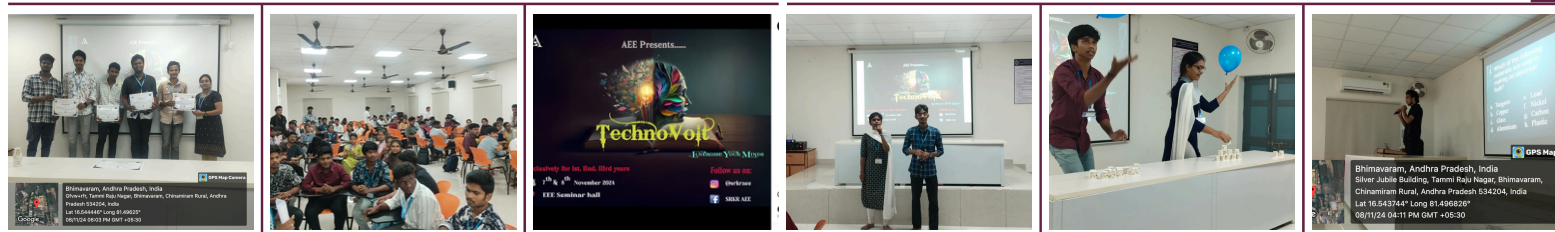
### IGNITE

The EEE Department recently hosted "IGNITE," a dynamic Skill Development and Interactive Oriented event held on August 22nd and 23rd, 2024. "IGNITE" aimed to spark creativity and innovation among first and second-year students.



The event featured engaging rounds, including word puzzles and equipment hunts, designed to enhance both technical and soft skills. "IGNITE" fostered a vibrant atmosphere, effectively motivating student participation and exploration of their potential. By blending fun with learning, the program provided valuable experiences and new insights. This initiative highlights the EEE Department's commitment to enriching the educational journey of its students.

## TECHNOVOLT

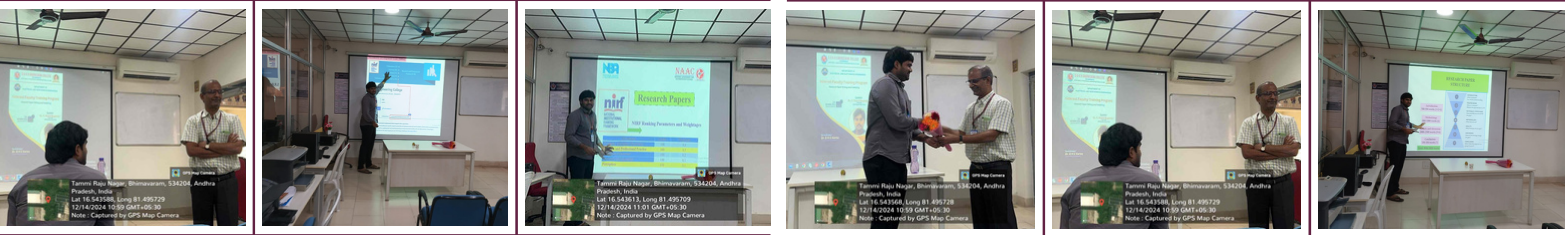


Technovolt 2024, held on November 7th and 8th, was an exciting blend of technical challenges and creative engagement. The event featured a series of interactive rounds designed to sharpen technical skills and spark innovative thinking. From problem-solving tasks to hands-on activities, participants actively engaged in each session, making the event fun and enriching. Technovolt provided a platform for students to collaborate, learn and showcase their potential, creating an energetic and inspiring atmosphere. With enthusiastic participation and a spirit of curiosity, the event successfully ignited young minds and left a lasting impact.

## FACULTY TRAINING PROGRAM

### Research Paper Writing and Publishing

The Department of Electrical and Electronics Engineering organized an Internal Faculty Training Program on Research Paper Writing and Publishing on December 14, 2024. Led by Dr. T. Vamsi Nagaraju, Dean (R&D) at SRKR Engineering College, the session covered journal



selection, research writing techniques, and the editorial review process while addressing common research challenges and providing practical submission tips. Faculty members actively participated, finding the session insightful and motivating, with Dr. G.H.K. Varma coordinating the event to strengthen the department's research culture.

## TRAINING ON ADAPTIVE ENERGY MANAGEMENT FOR DC MICROGRIDS

The Department of Electrical and Electronics Engineering (EEE) organized an internal faculty training program on "Adaptive Energy Management Strategy for Sustainable Voltage Control of PV-Hydro-Battery Integrated DC Micro-Grid" on November 23, 2024. Conducted by Dr. K. Raghavendra Naik, Assistant Professor at NIT Jamshedpur, the session provided in-depth insights into DC Microgrid systems and demonstrated voltage control strategies through simulations.



Faculty members explored adaptive energy management approaches integrating photovoltaic (PV) systems, hydroelectric power, and battery storage for sustainable voltage regulation. The hands-on session enhanced their technical expertise and problem-solving skills in renewable energy and microgrid management. The event was coordinated by Dr. G. H. K. Varma.

## PV INTEGRATED EV CHARGING INFRASTRUCTURE

The Department of Electrical and Electronics Engineering conducted an internal faculty training program on PV Integrated EV Charging Infrastructure on December 30, 2024, with Dr. Suresh Mikkili, Head of the Department at NIT Goa, as the keynote speaker. Coordinated by Dr. G. H. K. Varma, the program enhanced faculty understanding of electric vehicles and charging infrastructure, focusing on PV system integration.



Dr. Mikkili discussed key government initiatives like FAME-I and FAME-II, highlighting their role in sustainable transportation and the essential components of efficient charging systems. The session also covered advanced technologies such as Smart Grids, Microgrids, and Vehicle-to-Everything (V2X) systems, including V2V, V2G, V2L, and V2H, equipping faculty with insights into next-generation EV infrastructure.

## Faculty Training Program on Altair EV Solutions & Demonstration

The Department of Electrical and Electronics Engineering, in collaboration with Techfluent, successfully conducted an online Faculty Training Program on Altair EV Solutions & Demonstration on 17th October 2024.



Led by Altair professionals, the program covered advanced techniques in power electronics, motor drives, electric vehicles, and embedded systems development. Faculty members gained valuable insights into model-based design and system integration, exploring the latest industry practices and tools. This session provided an excellent opportunity for faculty to enhance their technical expertise and stay updated with emerging trends in EV technology, further enriching their teaching and research capabilities.

## STUDENT TRAINING PROGRAM

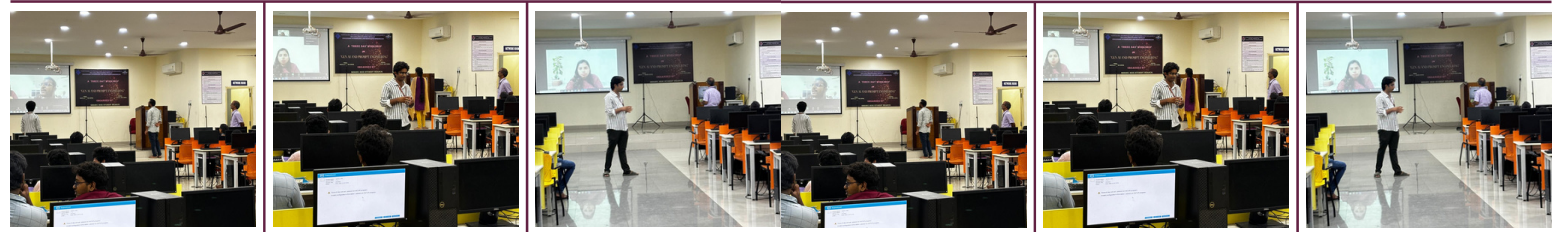
### Workshop on Generative AI and Prompt Engineering

The IEEE Student Branch, in collaboration with the Department of Electrical and Electronics Engineering, organized a three-day workshop on “Generative AI and Prompt Engineering” from 19th to 21st July 2024 at the DLC, Department of EEE.



Sri. S. Rajasekhar Reddy, IEEE Student Branch Counselor coordinated the workshop focused on developing skills in AI-generated content optimization and prompt engineering techniques. Day 1 covered the fundamentals of Generative AI and prompt engineering, followed by an interactive Q&A session. Day 2 featured with advanced techniques, hands-on sessions, and applications in EEE, while Day 3 focused on industry-oriented projects, expert reviews, and certification. The event successfully bridged the gap between AI theory and practical implementation, empowering students with real-world skills.

## Workshop on "Your Resume, Your Future"



A workshop titled "Your Resume, Your Future" was conducted on November 5, 2024, at the DLC, Department of EEE, exclusively for third-year EEE students. Led by alumna Ms. Crispi Shania and coordinated by Dr. G. H. K. Varma, the session focused on resume building essentials, including structuring strategies, ATS (Applicant Tracking System) optimization, and key section formatting. The workshop also featured live resume critiques and an interactive Q&A session, equipped students with practical insights and boosting their confidence in creating professional and impactful resumes.

## Guest Lecture on Embedded Systems

The Career Guidance Cell hosted a guest lecture, "Embark on a Journey into Embedded Systems," on October 25, 2024, from 3:00 PM to 5:00 PM. Led by an industry expert Sri. Vijay Veera, the session explored applications, design principles, and career prospects in embedded systems.



## Energy Efficiency Aspects of Electrical Engineering



A special talk on "Energy Efficiency Aspects of Electrical Engineering" was held on November 14, 2024, at the EEE Seminar Hall, organized by the SRKR IEEE Student Branch and the EEE Department of SRKR Engineering College. Prof. Konduru Nagabhushan Raju from SK University delivered the talk. The session focused on energy-saving methods, innovations, and sustainable practices in electrical engineering.

## VSG Activity



The Student Feeding Initiative (STUF) was a social service activity organized by the Voluntary Service Group (VSG) of the EEE Department, running from October 1st to December 31st, 2024. The event, coordinated by Dr.K.S.S. Prasad Raju, aimed to support needy students within the department by distributing food coupons.

With the support of the EEE department staff, Lunch and Breakfast tokens were provided to 14 students from the 4/4, 3/4, and 2/4 batches. Specifically, 11 students received breakfast tokens, and 3 students received lunch tokens.

# FACULTY ACHIEVEMENTS

## NPTEL Certifications



During the academic period from July to December 2024, faculty from our department has earned esteemed NPTEL certifications in a specialized domains, including Desgin of photovoltaic systems, Sensor tecnologies: Physics, Fabrication and Circuits and System desgin through verilog. This achievement highlights their commitment to professional growth and mastery of advanced concepts, enhancing the quality of instruction and inspiring students to pursue lifelong learning. Congratulations to our faculty for their dedication and exemplary success.

## Faculty Ph.D's



We proudly celebrate the academic accomplishments of two scholars in Electrical and Electronics Engineering. Dr. K.S.S. Prasadraju has earned his Ph.D. from Andhra University for his research on "Design and Implementation of Reduced Components Multilevel Inverter Topologies," under the guidance of Dr.K. Vaisakh. Equally commendable is the achievement of Dr. Swetha Kannepally has been awarded her Ph.D. by

JNTU-Gurajada Vizianagaram for "Self-Organised Fuzzy Controller as Automatic Generation Controller and Virtual Inertia Controller," guided by Dr. D. Vijay Kumar and Dr. V.S. Vakula. Congratulations to both on their outstanding achievements and best wishes for their future endeavors.

## Proud Moments – Faculty Accolades



Dr. G. Syamnaresh received the Best Presenter Award for his research paper titled "Assessment of Li-Ion Battery Performance for Electric Vehicles using Different Drive Cycles" at the 1st IEEE International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST-2024), held at NIT Manipur on October 25–26, 2024. The award was presented by Prof. (Dr.) DVLN Somayajulu, Director of NIT Manipur.

Dr.G.Syam naresh also served as a Session Chair during the event and was felicitated by Prof. (Dr.) Kh. Tomba Singh, Registrar, NIT Manipur.

**Student Coordinator-T.Lalitha Devi**