

# Electrical & Electronics Engineering Department-Newsletter



Volume 2026 Issue 1  
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## About GMRIT

[www.gmr.it.edu.in](http://www.gmr.it.edu.in)

GMR Institute of Technology is situated in Rajam, a small industrial town approximately 100 kilometers away from the 'city of destiny,' Visakhapatnam in Andhra Pradesh. The institute's campus spans over a sprawling 117 acres of land. The lush, sylvan, and idyllic surroundings in the heart of the agricultural belt provide an ideal setting for higher studies. The institute is affiliated with Jawaharlal Nehru Technological University Gurajada, and approved by AICTE New Delhi. It has been accredited with NAAC - 'A' grade by UGC. The Department of EEE has been accredited by the National Board of Accreditation (NBA) in Tier-I for the academic years 2025-26 to 2027-28.

GMRIT offers 4-year B.Tech. programs in eight core disciplines and 2-year M. Tech programs in five specializations. The institution has received a grant extension of autonomous status for a period of ten years, starting from 2018-19 to 2027-2028.

## About EEE Department

### Vision

To be a preferred department of learning for students and teachers alike, with a commitment towards Academics & Research, serving the students in an atmosphere of innovation, critical thinking and making them Industry ready.

### Mission

- M1. To provide adaptable education in a collaborative and innovative environment in skilling the graduates to solve real world problems in the field of Electrical & Electronics Engineering
- M2. To prepare the students as critical thinking professionals with multidisciplinary research orientation and Innovation
- M3. To instill ethical values and nurture the graduates who will be able to contribute to the society

## Overview

The Department of Electrical & Electronics Engineering was established in 1997. The department offers four-year B.Tech and two-year M.Tech programs. It has a rich tradition and well-qualified faculty, along with widely recognized laboratories. The department aims to provide a strong foundation in Electrical and Electronics Engineering fundamentals, emphasizing mathematical and scientific principles. Additionally, the course focuses on developing skills in the application of design processes for innovative engineering solutions. The annual intake of students in this department is 120.

## Facilities & Infrastructure

- Sophisticated Laboratories include:
  - Electrical Machines Lab
  - Electrical Engineering Lab
  - Electrical Measurements Lab
  - Power Systems Lab
  - Power Electronics Lab
  - Electrical Systems Simulation
  - Power Electronics and Drives Lab (PG)
- A well-stocked department library
- To enable the students and provide opportunities, to understand in the industrial eco-systems and work on latest technological developments in the industries, MoUs are signed with various industrial organizations
- Committed and dedicated faculty

## Major Courses Offered

- Electrical Machines
- Electrical Circuit Analysis
- Measurements and Instrumentation
- Semiconductor Devices & Circuits
- Linear and Digital integrated circuits
- Electromagnetic Field Theory
- Control Systems
- Power Generation, Transmission and Distribution
- Power System Protection
- Green Energy Technologies
- Power Electronics
- Electrical Vehicle Technologies
- Signals and Systems Theory
- Electrical Drives
- Power System Analysis and Control
- Engineering Economics and Project management

## Research and Academic Achievements

### Conference Publications

- M Venkatesh; V Guntreddi; P J Chacko, "Circulating Current Control in Modular Multilevel Converter Using a Super Twisted Sliding Mode Control", Lecture Notes in Electrical Engineering, 1412 LNEE, PP.307-322, Feb 2026 (Indexed by SCOPUS, 10.1007/978-981-96-5423-9\_21)

## Journal Publications

- Gokulan Ravindiran, K. Karthick, Kolli Ramujee, Mary Subaja Christo, Madaminov Bekzod Allayarovich, Hayitov Abdulla Nurmatovich, Subhi A. Ali & Gasim Hayder, "Ensemble Machine Learning Prediction of Multi-Pollutant Removal Efficiency in Biochar-Based Adsorption Systems", International Journal of Environmental Research, Springer, vol. 20, no.1, 2026. (SCI-E & Scopus Indexed, Impact Factor: 3.5, Q2, <https://doi.org/10.1007/s41742-025-01011-2>).
- Vasupalli Manoj, Malleti Sreedhar, Rebba Sasidhar, Praveen Kumar Yadav Kundala, Dasyam Chandra Mouli, Ramana Pilla, "E-bikes unplugged: exploring the evolution and environmental benefits of electric cycling", International journal of advances in applied sciences, vol. 14, no.4, pp. 1295-1304, 2026 (Scopus Indexed, Impact Factor : 0.79, <https://doi.org/10.1007/s41742-025-01011-2>).
- Ayyarao, T.S.L.V., Kishore, G.I., Dev, A. et al. A sport inspired kabaddi game optimizer for accurate parameter estimation of solar photovoltaic models. Scientific Reports, vol.16, no.1, 2677 (2026). <https://doi.org/10.1038/s41598-025-32437-5>. (SCIE and Scopus Indexed, Impact Factor: 3.8, Q1, <https://doi.org/10.1007/s41742-025-01011-2>).

## Faculty Outreach & Engagements

- Dr. S. P. Mishra served as a Session Chair at the IEEE International Conference ODICON-2026. He represented the Department of EEE at this international event on February 20th, 2026.

## Professional Development Activities by Faculty Members

- Mr. M. Santhosh Kumar participated in a 5-day Faculty Development Program (FDP) on "Enabling Teachers with AI Tools & Innovative Approaches for Effective Teaching-Learning." The program was organized by the Don Bosco Institute of Technology from January 8th to 12th, 2026.
- Dr. J.S.V. Siva Kumar participated in a 6-day ATAL Faculty Development Program (FDP) on "Role of Power Electronics in Sustainable Transportation Systems." The program was organized by the NR Vignana Jyothi Institute of Engineering & Technology from February 2nd to 7th, 2026.

## Guest Lecture / Events Organized

- **Flagship Event: Drone Riders Championship**  
A major highlight of STEPCONE 2026 was the high-octane Drone Riders Championship, hosted by the Department of Electrical and Electronics Engineering (EEE). Held on 2nd January 2026 at the ECE Ground, the competition tested the agility, design, and piloting skills of the participants. The event saw an enthusiastic turnout, with 12 teams and a total of 53 participants battling it out in the skies.

Winners: Team Rotor Rebels from MVGR College of Engineering. (Team Members: Dwarapudi Lahari Sivani, D. Sravanth Kumar, J. Gunasekhar Varma, E. Chaitanya Sruthi Sagar, and V. Hemanth)

Runners-up: Team Rudra Warriors from GMRIT. (Team Members: Muddada Karthik, Lukalapu Siva, Muddana Pranay Sai, Pulakhandam Karthik, and Reddi Jayaprakash)



### ➤ Alumni Talk on “Bridging Academia and Industry: Alumni Insights on Industry Needs”

Speakers:

Mr. Yogesh Bonu, Senior Engineer (Electrical), GMR Airports Ltd., Delhi

Mr. Subhash Dhulipudi, Junior Engineer, GMR Aero Technic, Hyderabad

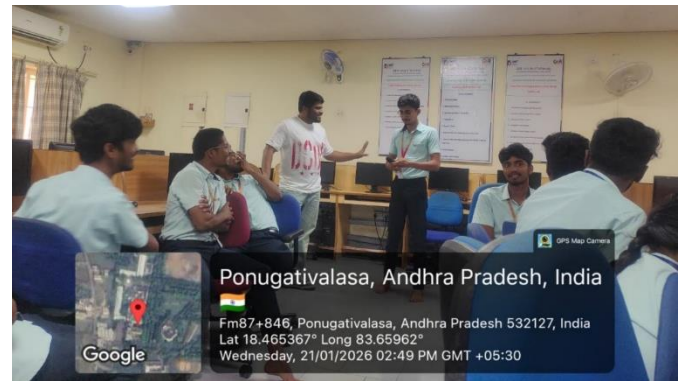
Ms. Allu Pratyusha, SAP Analyst (Materials Management), Capgemini, Bangalore

Venue: Simulation Lab

The Department of Electrical and Electronics Engineering, in association with the IEEE Transportation Electrification Council (TEC) Student Branch Chapter, organized an Alumni

Talk titled “Bridging Academia and Industry: Alumni Insights on Industry Needs” on 21 January 2026 at the Simulation Lab. The session aimed to create awareness among students about current industry expectations and to bridge the gap between academic learning and professional requirements.

The speakers shared their industry experiences and discussed the skills, knowledge, and competencies expected from graduates in core electrical, aviation, and IT-enabled industries. They explained how subjects covered in the present EEE curriculum, such as electrical machines, power systems, control systems, power electronics, and basic programming, form a strong foundation for industry roles when complemented with practical exposure and continuous learning.



- The Department of EEE organized an event titled “Building Adaptive Excellence through Resilience, Innovation, and Efficiency” on 4th February 2026. The session was presented by EEE faculty members Dr. P. Ramana, Dr. L. V. Suresh Kumar, and Dr. N. V. A. Ravikumar for EEE students.



- The Department of Electrical and Electronics Engineering, GMRIIT, organized a field visit to the GMR 700 kW Solar Power Plant for III Year B.Tech students on 08 January 2026, providing practical exposure to renewable energy systems and real-world power generation.



### ➤ "Pseudo Coders" Event

The Department of Electrical and Electronics Engineering (EEE), in association with the ISTE Student Chapter, successfully hosted "Pseudo Coders" on February 11th, 2026.

The event is designed to bridge the gap between core engineering and software industry

requirements, the event challenged students to dust off their programming fundamentals and put their analytical skills to the test.

### Event Highlights:

**Strong Turnout:** The hour-long coding challenge saw an enthusiastic response, with 63 students stepping up to participate.

**Skill-Building Format:** Rather than writing code from scratch, participants tackled a 20-question challenge focused on practical software skills: identifying syntax errors, fixing logical bugs, and completing continuous code blocks.

**Career Prep:** The core objective was to familiarize EEE students with the types of technical assessments commonly seen in software industry placement drives, building their confidence for future interviews.

**A Collaborative Effort** The smooth execution of the event was made possible by the dedication of our student coordinators: M. Dharshini, K. Sai Manikanta, K. Varshitha, and N. Siva Mani. Their hard work ensured a flawless and engaging experience for all participants.





## Editorial Borad Members

### Chief Editors

Dr.Ramana Pilla

Dr.K.Karthick

### Section Editors (Faculty)

#### Research and Academic Achievements

Dr G Indira Kishore

#### Guest Lecture / Expert talk / Events Organized

Dr L V Suresh Kumar

### Section Editors (Students)

#### Student-Centric Events and Engagement

AMBAKANDI GANESH KUMAR (23341A0203)

ANDHAVARAPU GAYATHRI (23341A0205)

TARIGOPPULA MANIKANTA SRINIVASA RAO (23341A02B9)

VEMAKOTI HARIKA (23341A02C5)

BORA LAKSHMI PRASAD (23341A0222)

GOSALA INDU (23341A0245)

VANAPALLI POOJITHA (23341A02C2)

KANDULA SAI MANIKANTA (24341A0257)

KARRA SRI VARSHITHA (24341A0260)

BHASURU SAMEERA (24341A0214)

EDDUM YASHWANTH SAI KUMAR (24341A0235)

MUDDANA DARSHINI (24341A0278)

NIKKU SIVAMANI (24341A0288)

KOTNANA MOHIT MANIKANTA (24341A0267)

PATTA LAHARI (24341A0294)