

Electrical & Electronics Engineering Department-Newsletter



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About GMRIT

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 2022-23 to 2024-25.

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

- **Rajesh Kumar Patnaik**, M. R. Kamesh, D. Nagamalleswari, G. Ramya, V. Surendar, Ramesh Velumayil, M. Sudhakar, V. Vijayan; Enhancing solar still performance with jute cloth wicks: A comparative study of absorber geometries. AIP Conf. Proc. 11 April 2025; vol. 3270 no.1,2025. <https://doi.org/10.1063/5.0261587>
- S. Amosedinakaran, S. Sujatha, **R. K. Jalli**, P. Babu Rao, V. K. K and S. Saravanan, "LSTM-Based Deep

Learning Long Term Electric Demand Prediction for Karnataka," 2025 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICDSAAI65575.2025.11011862.

Journal Publications

- Manoharan, Premkumar, Sowmya Ravichandran, **Jagarapu S. V. Siva Kumar**, Mustafa Abdullah, Tan Ching Sin, and Tengku Juhana Tengku Hashim. 2025. "Electrical Equivalent Circuit Parameter Estimation of Commercial Induction Machines Using an Enhanced Grey Wolf Optimization Algorithm", Biomimetics vol.10, no. 4: pp.228. (SCI-E, Q3 & Scopus Indexed, I.F: 3.4, <https://doi.org/10.3390/biomimetics10040228>)
- Muthamizhan, T., **K. Karthick**, S. K. Aruna, and P. Velmurugan. 2025. "AI-Driven Stacking Ensemble for Predicting Total Power Output of Wave Energy Converters: A Data-Driven Approach to Renewable Energy Processes", Processes vol.13, no. 4: pp.961. (SCI-E, Q2 & Scopus Indexed, I.F: 2.8, <https://doi.org/10.3390/pr13040961>)
- **Tummala, S.L.V.A., Kishore, G.I.**, "Competitive War Strategy Optimizer for global optimization and complex engineering problems", Journal of Ambient Intelligence and Humanized Computing, vol.16, pp.641–652 (2025). (Scopus Indexed, I.F: 4.9, <https://doi.org/10.1007/s12652-025-04969-1>)

- Ravindiran, G., **Karthick, K.**, Ramaraju, H.K. et al. An advanced machine learning framework for predicting climate warming from greenhouse gas emissions. Asian J Civ Eng (2025). (Scopus Indexed)

Professional Development Activities by Faculty Members

- Dr. P. Upendra Kumar completed the FDP on Recent Trends in Renewable and Electric Vehicle Technologies at LBCR, Mylavaram (NTR Dist.) from 3 June 2024 to 7 June 2024.
- Dr. S. P. Mishra completed the FDP on Cutting-Edge Advancements & Innovations in Electrical, Electronics & Communication Engineering at Centurion University of Technology and Management, School of Engineering and Technology from 1 July 2024 to 5 July 2024.
- Dr. K. Karthick completed the FDP on Python for Data Science offered by NPTEL-AICTE from July to August 2024.
- Dr. K. Karthick completed the FDP on Business Intelligence & Analytics offered by NPTEL-AICTE from January to April 2025.
- Dr. T. S. L. V. Ayyarao completed the FDP on Role of Artificial Intelligence Applications to Emerging Technologies at Prasad V. Potluri Siddhartha Institute of Technology from 10 June 2025 to 14 June 2025.

- Dr. T. S. L. V. Ayyarao completed the FDP on “Powering Tomorrow: AI-Driven Advanced Control and Renewable Energy Integration in Electric Vehicles” at GITAM (Deemed to be University), Visakhapatnam from 5 May 2025 to 9 May 2025.
- Dr. V. Manoj completed the FDP on Smart Grid Integration & Renewable Energy for Electric Mobility at GMRIT Rajam and SAHE Vijayawada from 2 June 2025 to 6 June 2025.
- Dr. V. Manoj completed the FDP on AI-Driven Innovations in Power Electronics for Smarter Power Systems at Sasi Institute of Technology and Engineering, Tadepalligudem from 24 June 2025 to 28 June 2025.
- Dr. M. Venkatesh completed the FDP on Research Documentation and Proposal Writing: LaTeX, IPR & Beyond at CVR College of Engineering, Ibrahimpatnam (M), R.R. (D), Telangana from 23 June 2025 to 28 June 2025.
- Dr. M. Rambabu completed the FDP on “Powering Tomorrow: AI-Driven Advanced Control and Renewable Energy Integration in Electric Vehicles” at GITAM (Deemed to be University), Visakhapatnam from 5 May 2025 to 9 May 2025.
- Dr. Hemantha Kumar completed the FDP on Smart Grid Integration & Renewable Energy for Electric Mobility at GMRIT Rajam and SAHE Vijayawada from 2 June 2025 to 6 June 2025.

Guest Lecture / Events Organized

- The Project Club of the EEE Department successfully organized a project display exhibition on 3 May 2025, showcasing innovative ideas and the exceptional creativity of our students.





Placement Achievements of Our Students

- A total of 104 EEE students secured placements across 20 companies, with packages ranging from 2.19 LPA to 7.00 LPA.

RDC Concrete (3.60 LPA)

Maddila Teja (21341A0264)
Patcharla Sri Devi (21341A0277)

Infosys (3.60 LPA)

Badeti Purna Vamsi Krishna (21341A0204)
Bakku Gowthami (21341A0205)
Kandapu Sivaji (21341A0243)
Mavuduru Sasi Kowshik (21341A0266)
Pilla Jishnu (21341A0283)
Porapu Chitti Ayyappa (21341A0288)
Potnuru Deepthi (21341A0289)
Konchada Nani Prasad (22345A0205)

Vem Technologies (4.00 LPA)

Tadela Venkatesh (22345A0213)
Gedela Mohith (21341A0230)

LTI Mindtree (4.53 LPA)

Beera Sankar (21341A0210)
Suggu Sravanthi (21341A02A3)
Uttarala Vamsi (21341A02A8)
Dabbiru Sai Likhith (22345A0225)

GMR Group (5.50 LPA)

Bangaru Hemanth (21341A0208)
Bonthu Durga Bhaskar (21341A0214)
Dasari Divya Sri (21341A0222)
Dosala Vishal (21341A0225)
Ganta Lavanya (21341A0228)
Ganta Sai Keerthi (21341A0229)
Honey Dasireddi (21341A0237)
Jinagam Chiranjeevi (21341A0239)
Karanam Nithin (21341A0245)
Kemburu Nandini (21341A0248)
Kemburu Sadhwika (21341A0249)
Pathivada Sireesha (21341A0279)
Sunkari Teja (21341A02A4)
Kondapalli Krishnaveni (21341A0254)
Kuppili Mohan Shriram (21341A0260)
Gokavalasa Sirisha (21341A0232)
Bepala Radha Kumari (21341A0211)
Challa Priyanka (22345A0202)
Bommali Harini (21341A0213)

Megawide (4.50 LPA)

Pentakota Pavansatish (22345A0222)

Vena Energy (7.00 LPA)

Kadrothu Sai Ganesh (21341A0242)

Salipalli Jahhnavi (21341A0297)

Silla Asritha (21341A02A2)

Kalgudi Digital (3.60 LPA)

Pathivada Nirmala (21341A0278)

Deloitte (4.00 LPA)

Kadrothu Sai Ganesh (21341A0242)

Beumer Group (4.20 LPA)

Mudadla Deepak (21341A0271)

Pilla Kalpana (21341A0284)

Arrowsight (3.00 LPA)

Adangi Saikiran (20341A0201)

Gollapalli Sowjanya (21341A0233)

Mudili Dharani (21341A0272)

Pinninti Abhishek (21341A0285)

Podugu Lakshmana Rao (21341A0286)

Vavilapalli Chandra Sekhar (21341A02B0)

Vudayana Vagdevi (21341A02B1)

Puppala Sharon Lilly (22345A0209)

Cheemala Harika (21341A0218)

Kondamudi Anasuya Samhitha (21341A0253)

Redlam Likhitha (21341A0296)

Vakada Pravallika (21341A02A9)

Yajjala Gnaneswara Kumar (21341A02B4)

Yedakula Harini (21341A02B6)

Technodeal (4.25 LPA)

Korikana Parameswara Rao (21341A0255)

ARF Design (3.15 LPA)

Bali Pradeep Kumar (21341A0207)

Pujari Janshi (21341A0293)

Cadsys (4.26 LPA)

Gunupuru Sowjanya (21341A0235)

Solarsquare (3.00 LPA)

Guruvu Sai Sagar Kumar (22345A0219)

Pilla Dinesh (21341A0282)

Kovvuru Dhanush Varma (22345A0226)

MEIL (3.00 LPA)

Praveen Krupa Kumar Gunapu (21341A0292)

Lakshmi Narayana Gedela (21341A0263)

Sasapu Jagadeesh (21341A0299)

Budumuru Mohith (21341A0216)

Metta Hima Raja Sekhar (21341A0267)

Gangiseti Shanmukha Rao (21341A0227)

Pandranki Sudheer Kumar (22345A0223)

Namabattula Vijendra Babu (22345A0216)

Kuramana Manmada Rao (21341A0262)

Yagati Praveen (21341A02B3)

Pukilla Vijaykumar (21341A0294)

Karanam Sandeep Naidu (21341A0246)

Unkili Vinay Kumar (21341A02A7)

Kadiyam Harsha Vardhan (21341A0241)

Datti Syamasundarrao (21341A0223)

K Dev (22345A0217)

Ramesh Yalakala (21341A0295)

Danimisetti Kondala Rao (21341A0221)

Chowdala Barghava (21341A0219)

Bonu Manikanta (21341A0215)

Gunapu Suresh (21341A0234)

Lokonda Mohit (22345A0204)

Pedada Rajith Kumar (22345A0221)

Kondaka Sai Tarun (21341A0252)

Delphi TVS (2.19 LPA)

Parusubotu Siva (21341A0276)

Potnuru Yaswanth (21341A0291)

Sasapu Jagadeesh (21341A0299)

Mufront (3.50 LPA)

Boddepalli Triveni (22345A0206)

Sathapasthi Pravallika (21341A02A0)

MRF (3.00 LPA)

Gangiseti Shanmukha Rao (21341A0227)

Balaga Sai (21341A0206)

Kuppili Sai Praneeth (20341A0272)

Lokanadham Charath Chandu (20341A0274)

Namabattula Vijendra Babu (22345A0216)

Mula Pradeep (21341A0273)

Pothala Naveen Kumar (22345A0212)

HTC Global (3.50 LPA)

Konathala Poornesh (21341A0251)

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. Rajesh Kumar Patnaik

Dr L V Suresh Kumar

Guest Lectures / Technical Contributions to the External World by Faculty Members

Dr. Hemanth Kumar Chappa

Section Editors (Students)

Student-Centric Events and Engagement

Budumuru Gireesha (22341A0225)

Turubilli Kiran (23345A0206)

Gandreti Sai Varun (22341A0244)

Guddala Harshitha (22341A0252)

Kondaka Harika (22341A0266)

Vangapandu Hari (22341A02C3)

Koneti Vinay Kumar (22341A0267)

Lenka Sai Nirupama (22341A0273)