About the Institutes

GMRIT:GMR Institute of Technology (GMRIT)was established in the year 1997 by GMR Varalakshmi Foundation - the corporate social responsibility arm of GMR Group. GMRIT offers aspiring engineers' high quality technical education. It is currently placed among the top 50 colleges in the country and among the top 5 colleges in the state of Andhra Pradesh. GMRIT provides its learning community state-of-the-art facilities, infrastructure, and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real-world experiences. It offers Eight UG and FivePG programs. All B.Techprograms are accredited by NBA under Tier-1 complying with Washington Accord and the college is accredited as an 'A' grade institution by NAAC for the three consecutive cycles. In the NIRF-ranking GMRIT was placed in the band of 201-300 for the year 2024.

SAHE: V R Siddhartha Engineering College was the first private engineering college in the united Andhra Pradesh, founded in 1977. The institute was accredited with NBA in five cycles since 1998. The institute was reaccredited by NAAC with an 'A+' grade in 2021 and ISO 21001:2018 certified. The Institute has consistently ranked within the top 200 in the NIRF rankings for the last seven years. In 2024, V R Siddhartha Engineering College was declared as a Siddhartha Academy of Higher Education (SAHE), deemedto-be university under Section 3 of the UGC Act, 1956 by Ministry of Education, Government of India. SAHE offers diverse undergraduate and postgraduate programs through its specialized schools, including Velagapudi Ramakrishna Siddhartha School of Engineering, School of Management, School of Law, School of Science, and School of Arts & Commerce.

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Dr. J. Girish

Dr. P.Venkateswara Rao

Director-Education, GMRVF

Vice-Chancellor, SAHE

Patron

Dr.C.L.V.RS.V.Prasad

Principal, GMRIT

Dr. A.V. Ratna Prasad

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Conveners

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Dr. P. V. R. L. Narasimham, Professor & HoD-EEE, SAHE

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Dr. M. Venkatesh, Assistant Professor, GMRIT

Dr. B. Venkateswara Rao, Associate Professor, SAHE

Dr. D.Indira, Assistant Professor, SAHE

Organizing Committee

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Dr.R.Rama Krishna, Assistant Professor, GMRIT

Dr. A Ramadevi, Professor, SAHE

Dr G Srinivasarao, Associate Professor, SAHE

Resource Persons

DrP.E.S.N Raju, IIT ,Guwahati

Topic: Key Issues & Challenges, and the Role of Real-time Simulators in the Implementation of Microgrids

Dr. D.Raveendhra, NIT Allahabad, Uttar Pradesh

Topic: Design and Optimization of Integrated Renewable Energy Systems for Grid Stability and Resilience in Urban Areas

Dr. Manohar Mishra, SoA University, Bubaneswar

Topic: AI application to Renewable and Smart grid Technologies

Dr. Sonti Venu, NIT, Raipur

Topic: Electric vehicle charging Technologies

Mr. Ch. Sreekanthreddy, Ford, Michigan, USA

Topic: Renewable energy for E-Mobility





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About the Departments

Department of Electrical and Electronics Engineering of GMRIT was established in 1997. The department is accredited by NBA under Tier-1 and admits 120 students annually. Strong foundation in EEE fundamentals, emphasizing mathematical, scientific principles, cultivating meritorious and self-disciplined engineers is the motto of this department. Moreover, highly qualified faculty and vibrant academic atmosphere nurture the students' innate skills to achieve the department's goals. Industry internships, extracurricular and co-curricular activities bridge the gap between class room theories and real-world applications, eventually transforming the student potentially ready for industry. In addition, the state-of-the-art research facilities encourage students to develop research competencies and enable them to broaden their horizons.

SAHE - The Department of Electrical and Electronics Engineering is established in the year of 1977. The department offers B.Tech program in Electrical and Electronics Engineering with an intake of 120 and Ph.D program. UG program is accredited by National Board of Accreditation (NBA) under the outcome-based education system for a period of 3 years. The department is having state-of-art laboratories for teaching UG courses and conducting research in power systems domain. The department has major equipment in various laboratories such as 220kV Transmission line simulator, HV Testing facilities, Numerical relays and relay coordination unit with fault simulator, Rotary machine setup and PV emulator. The department is also enriched with all kinds of simulation tools such as Power world, PSCAD, PSIM, MiPower, Multisim, PVSol in addition to MATLAB/Simulink to carry research in Power system studies. Power electronics drives and control aspects.

About the FDP

A one-week Faculty Development Program (FDP) on "Smart Grid Integration and Renewable Energy for Electric Mobility" aims to enhance faculty expertise in emerging power and energy technologies. The program will focus on integrating renewable energy sources with smart grid infrastructure to support the growing demands of electric mobility. Key topics include smart grid architecture, grid integration of EVs, Real time simulations, power electronics, and sustainable charging infrastructure. Expert sessions from academia and industry will offer insights into current trends, challenges, and research opportunities, equipping participants to contribute effectively to teaching, research, and innovation in this transformative domain.

Topics Covered

- Introduction to Renewable Energy Integration
- Fundamentals of Smart Grids
- Micro-Grids: Concept and Role in Renewable Energy Integration
- AI application to Renewable and Smart grid Technologies
- Real-time Simulators in the Implementation of Microgrids
- Design and Optimization of Integrated Renewable Energy Systems
- Advanced Multilevel Inverter Designs for Renewable Energy Applications
- Smart Grid Integration for Renewable Energy Systems
- Energy Storage Solutions in Integrated Renewable Energy Systems
- Electric vehicle charging Technologies and Future Directions

Contact Persons

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Dr. B. Venkateswara Rao : 9392690805

Dr. D. Indira : 9160620632

Eligibility

All interested Faculty, Research Scholars, PG Students, and Industry Personnel

Registration Details

Faculty, Research Scholars, PG Students :Rs. 300/-Industry Participants :Rs. 500/-

Bank Account Details for Payment

Account : Indian society of Technical

Education GMRIT Chapter

Bank Name : Union Bank of India



(Please upload payment receipt copy along with the UTR number while doing registration)

Registration Link

https://forms.gle/AJbA1VzfMyo21xtK8

Certificate

The link for the different sessions will be emailed to the registered participants. The certificate will be issued for those participants who have attended the program with minimum 80% attendance.