



**GMRIT - an Overview:** GMR Institute of Technology (GMRIT), an autonomous institution affiliated to JNTU-GV, accredited by NAAC with 'A' Grade 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.

GMRIT has come a long way since its inception and has carved a niche for itself in the corporate world. 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 is this emphasis on a well-rounded education that makes GMRIT a preferred institute among engineering colleges in India. GMRIT being an autonomous institute since 2012, has brought in several best practices in curriculum design, delivery, and assessment to keep up the pace with the dynamic industry requirements. GMRIT emphasizes collaborative learning between industry and academia as a means of reinforcing its curriculum with practical experience relevant to industry needs. Collaboration with the industries and academia makes the students industry ready. It offers Eight Under Graduate and Six Post Graduate programs. All B.Tech. programs 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 and certified with ISO 9001-2015. The institute has well established system to implement Outcome Based Education (OBE). In the ranking done by NIRF-MHRD, GMRIT was in the band of 201-300 for the year 2024. Further, GMRIT was declared as the 1<sup>st</sup> best Clean & Smart campus by AICTE.



**NIT Warangal - an Overview:** National Institute of Technology (NIT) Warangal is the oldest one in the bracket of first 17 NITs. It is the first regional engineering college whose foundation stone has been laid by the former prime minister, Pandit Jawaharlal Nehru in the year 1959. Over a

period of more than six decades, NIT Warangal has emerged as one of the leading institutions in engineering and technology. Warangal is the second largest city of the state of Telangana, Hyderabad being the first one which has several places of interest to visit. Some of the cultural heritages worth seeing in Warangal are Ramappa Temple, Bhadrakali Temple and thousand pillar temple. NIT Warangal is poised to create an ambience for nurturing innovation, incubation, creativity and excellence within its faculty and students towards achieving the sustainable development goals. We emphasize on student centric education with interdisciplinary research and development for the benefit of Industry and Society. NIT Warangal becomes a preferred institution for top rankers in Joint Entrance Examination (Main) because of its excellent teaching learning process, infrastructure that a student needs for effective learning. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech, and PhD programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

### Chief Patrons

**Dr. J. Girish**  
Director-Education, GMRVF

**Prof. Bidyadhar Subudhi**  
Director-NIT Warangal

### Patron

**Dr. C.L.V.R.S.V. Prasad**  
Principal, GMRIT

### Conveners

**Dr. K. Venkata Reddy, Professor & HoD, NIT-Warangal**  
**Dr. G. Ganesh Prabhu & HoD, GMRIT**

### Co-ordinators

**Dr. S. Siva Gowri Prasad, Sr. Assistant Professor, GMRIT**  
**Dr. G. Kalyan Kumar, Associate Professor, NIT Warangal**  
**Dr. J. Sridhar, Associate Professor, GMRIT**  
**Dr. K. Naga Rajesh, Sr. Assistant Professor, GMRIT**  
**Miss. M. Jyotsna, Assistant Professor, GMRIT**

### Organizing Committee

**Dr. B.A.V. Ramkumar, Assistant Professor, GMRIT**  
**Dr. Arun Soloman, Sr. Assistant Professor, GMRIT**  
**Dr. A. Priyanka, Sr. Assistant Professor, GMRIT**

### Resource Persons

**Dr. G. Kalyan Kumar, Associate Professor**  
**Department of Civil Engineering, NIT Warangal**  
*Topic: Applications of Geosynthetic Material Projects in India*

**Dr. T. Venkata Bharat, Professor**  
**Department of Civil Engineering, IIT Guwahati**  
*Topic: Advancements in Containment Application of Bentonite for Municipal to Biomedical Waste*

**Dr. P. V. V. Satyanarayana, Professor**  
**Department of Civil Engineering, Andhra University**  
*Topic: Use of roller compacted technique in pavement*

**Dr. S. Bhuvaneshwari, Assistant Professor**  
**Department of Civil Engineering, Anna University**  
*Topic: Sustainable solutions for Problematic soils*

**Dr. B. Soundara, Assistant Professor**  
**Department of Civil Engineering, Anna University**  
*Topic: Sustainable Utilization of Industrial Waste in Ground Engineering Solutions*

**Dr. Kadali Srinivas, Associate Professor**  
**Department of Civil Engineering, VNR VJMET, Hyderabad**  
*Topic: Advanced instrumentation in geomaterial characterization*



## One Week Online Faculty Development Program on Innovative Technologies in Geotechnical Engineering

11<sup>th</sup> to 16<sup>th</sup> November, 2024

Organized by

Department of Civil Engineering  
GMR Institute of Technology  
Rajam, Andhra Pradesh

In Collaboration with

Department of Civil Engineering  
National Institute of Technology  
Warangal, Telangana

Visit us at: <https://www.gmr.it.edu.in/>  
<https://nitw.ac.in/>



### About the Department

**GMRIT** – Department of Civil Engineering of this esteemed institution (GMRIT) was established in 2002. The department is accredited by the National Board of Accreditation (NBA under Tier-1) and admits 120 students annually. Strong foundation in Civil Engineering fundamentals, emphasizing mathematical and scientific principles, and cultivating meritorious and self-disciplined engineers is the motto of this department. The curriculum focuses on applying design processes to develop innovative engineering solutions. A strong belief on an industry-drafted Choice Based Credit System (CBCS) curriculum coupled with implementation of outcome-based education enables the student's success in competitive fields. Moreover, highly qualified faculty and vibrant academic atmosphere nurture the students' innate skills to achieve the department's goals. Industry internships, extra-curricular and co-curricular activities bridge the gap between class room theories and real-world applications, eventually transforming the student potentially ready for industry. The foreign collaborations enable selected students to undertake full semester internship at University Teknologi PETRONAS (UTP) in Malaysia under the UTP Research Attachment Programme. In addition, the state-of-the-art research facilities encourage students to develop research competencies and enable them to broaden their horizons. The students' magnificent feat in prestigious campus placements is a testament for the academic excellence and scientific research.

**NIT Warangal** – The Department of Civil Engineering is one of the oldest departments of the National Institute of Technology, Warangal (NITW). Established as one of the major departments of the Institute, since its inception in 1959, the Department of Civil Engineering has been actively engaged in teaching and research in diverse fields of Civil Engineering. With excellent faculty, the Department of Civil Engineering offers Under Graduate (B.Tech.) and Post Graduate (M.Tech) in Engineering Structures, Water Resource Engineering, Geotechnical Engineering, Transportation Engineering, Remote Sensing and Geographical Information Systems, Environmental Engineering, Construction Technology and Management, Waste Management and research (Ph.D) programmes. Vision of the department is to be a knowledge nerve centre in civil engineering education, research, entrepreneurship and industry outreach services for creating sustainable infrastructure and enhancing quality of life. Mission of the department is to generate a specialized cadre of civil engineers by imparting quality education and training. Attain international standards in teaching, research and consultancy with global linkages.

### About the FDP

The Faculty Development Program on "Innovative Technologies in Geotechnical Engineering" explores the evolution and core concepts of Industry 4.0 and its impact on modern engineering practices. Participants will gain insights into latest advancements in geotechnical engineering, addressing critical topics like the application of geosynthetic materials in Indian infrastructure projects, which enhance soil stability and longevity. It also covers the roller-compacted concrete technique, an efficient solution for pavement construction. Participants will explore sustainable approaches for problematic soils and the innovative use of industrial waste in ground engineering. Additionally, the program emphasizes advanced instrumentation in geomaterial characterization, offering insights into modern techniques for assessing soil and material properties. This FDP aims to equip faculty with the knowledge and skills to integrate these cutting-edge solutions into teaching and research.

### Topics Covered

- Applications of Geosynthetic Material Projects in India.
- Use of roller compacted technique in pavement.
- Advanced instrumentation in geomaterial characterization.
- Sustainable solutions for Problematic soils.
- Sustainable Utilization of Industrial Waste in Ground Engineering Solutions.
- Advancements in Containment Application of Bentonite for Municipal to Biomedical Waste

### Contact Persons

**Dr. S. Siva Gowri Prasad** : 9603002579

**Dr. K. Naga Rajesh** : 9985878956

### Eligibility

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

### Registration Details

Faculty, Research Scholars, PG Students : Rs. 300/-  
Industry Participants : Rs. 500/-  
Last date for Registration : 08.11.2024

### Bank Account Details for Payment

Account : Siva Gowri Prasad Suvvari  
Account number : 18361010004377  
Bank Name : Union Bank of India  
Branch : GMR Nagar, Rajam  
IFSC Code : UBIN0818364  
PhonePe : 9603002579

(Please copy the payment transaction ID and place it in the registration link given below)

### Registration Link



[Click Here](#) or [Scan QR](#)

### Test and Certificate

The link for the different sessions will be emailed to the registered participants. An online test will be conducted at the end of the FDP. The certificate will be issued for those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.