



**GARIT**

Training Tomorrow's  
Engineers Today

# BUILDERS TREND

## GMR INSTITUTE OF TECHNOLOGY

2021-2022  
Volume -I

Department of Civil Engineering

Highlights:  
FDP/STTP Organized  
International /National Journal Publications  
Student: Placement

## **BUILDER TRENDS**

### **VISION**

To be a nationally preferred department of learning for students and teachers alike, with dual commitment to research and serving students in an atmosphere of innovation and critical thinking.

### **MISSION**

To provide high-quality education in Civil Engineering to prepare the graduates for a rewarding career in Civil Engineering and related industries, in tune with evolving needs of the industry.

To prepare the students to become thinking professionals and good citizens who would apply their knowledge critically and innovatively to solve professional and social problems.

### **Overview**

The Department of Civil Engineering was established in 2002. It offers students a solid grounding in better utilization of resources and greater standardization of construction processes required by the construction industry. Students are taught how to use and employ innovative design methods and techniques. Exposure to contemporary facets planning, construction design and project management are key aspects of the course. Annual intake of this Department is 120 students

# Program Outcomes

The Bachelor of Technology program aims to produce students that at the time of graduation will be able to:

- Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
- Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
- Propose appropriate solutions for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
- Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
- Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
- Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
- Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
- Demonstrate Knowledge of professional and ethical practices.
- Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.
- Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clear instructions.
- Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment.

## Program Educational Objectives

- ◆ Engage in ongoing learning and professional development through self-study, continuing education in civil engineering and in other allied fields.
- ◆ Apply engineering skills, critical thinking and problem-solving skills in engineering practices or tackle social, technical and business challenges.
- ◆ Demonstrate professional excellence, ethics, soft skills and leadership qualities

## CONSULTANCY

Being facilitated with well-equipped equipment and laboratories the Department of Civil Engineering always contributes a major role in the consultancy works offered to the government and private organizations around the districts and so on.

As a part of Consultancy an amount of 36,600 rupees worth core related works were carried out by the faculty with respect to various specializations.



# Publications: International Journals

1. B.P.R.V.S.Priyatham, D.V.S.R.K.Chaitanya, S.H.Vamsi Krishna, "Effect of Lime and Brick Powder on the Engineering Properties of Black Cotton Soil", Design Engineering, Vol. No. 2021, Issue No. 9, pp. 7227-7233, Dec 2021. (ISSN No.0011-9342) (Indexed in Scopus) <http://thedesignengineering.com/index.php/DE/article/view/7802>
2. U Siva Rama Krishna, Ch. Naga Satish Kumar "Analytical Modelling of Ultra-thin white topping cement concrete overlay on bituminous concrete pavement using ANSYS", World Journal Engineering, 22<sup>nd</sup> February 2022. (ISSN:1708-5284) (In:Scopus,Q3) (CiteScore:2.3,2021) (DOI: <https://doi.org/10.1108/WJE-10-2021-0577>).
3. Teja gedela and Ramkumar. B.A.V "Roller compacted concrete for rigid pavements-A Review", International Journal of Innovative Research in Technology (IJIRT), Vol. 8, Issue 4, Sep. 2021, pp. 226-230, ISSN: 2349-6002

## Books/Book Chapter

1. R. Gokulan, J Raja Murugadoss, S. Praveen, J. Jegan, "**Water - Conventional and Novel Treatment Methods**", Solar Driven Water Treatment, 1 st Edition, Elsevier Book Chapter, Academic Press. 26<sup>th</sup> October 2021 (**Paperback ISBN:** 9780323909914; **eBook ISBN:** 9780323900034)
2. B.A.V. Ram Kumar, Harishbabu Jallu, "Performance of Geogrid Reinforced Asphalt Layers-A Review", Recent advancements in Civil engineering ,VNIT Nagpur, December 2021. Lecture Notes in Civil Engineering, Springer.
3. **1.Penki R.**, Srinivasa Rao T., Vinod Naik G., Aparna R. (2022) Identification of Parking Sites in the Kukatpally Region Using GIS and AHP. In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering, vol 196. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6557-8\\_36](https://doi.org/10.1007/978-981-16-6557-8_36).
4. **Penki R.**, Madhavi B., Akhilesh Patnaik K., Sri Divya A. (2022) A Scientometric Analysis on Bio-Bitumen. In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering, vol 196. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6557-8\\_50](https://doi.org/10.1007/978-981-16-6557-8_50).
5. Kumar K.K., **Penki R.** (2022) A Scientometric Analysis on Aggregate Blending. In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering, vol 196. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6557-8\\_51](https://doi.org/10.1007/978-981-16-6557-8_51).

# Seminars and STTP

- ◆ Online Guest Lecture on "Applications of RS & GIS" by T.Srinivasa Rao, Research Scholar, IIT Bombay on 23.10.2021, conducted by Dept. of Civil Engg., GMR Institute of Technology.
- ◆ Online Guest Lecture on "Fundamentals of Remote Sensing" by Rathod Ravinder, Asst. Professor, GRIET, Hyderabad on 29.10.2021, conducted by Dept. of Civil Engg., GMR Institute of Technology.
- ◆ Online Guest Lecture on "Open-Source geospatial tools" by B Sachin Kumar, Project Scientist, NIRDPR, Hyderabad on 30-10-21, conducted by Dept. of Civil Engg., GMR Institute of Technology.
- ◆ A webinar "Simplifying Sustainability for all" on 24-Sep-2021, conducted by Indian Green Building Council (IGBC) in association with GMR Institute of Technology.
  
- ◆ Online Guest Lecture on "Python as a 21st century skill" by D Shiva, Infosys-Hyderabad on 11-11-21, 3:00-4:30PM, conducted by Dept. of Civil Engg., GMR Institute of Technology
- ◆ Online Guest Lecture on "Bio-Remediation: an ecofriendly cleanup technique" by Dr. A. K. Priya on 13-11-21, 1:30-2:30PM, conducted by Dept. of Civil Engg., GMR Institute of Technology.
- ◆ Virtual Guest lecture on "Intelligent Transportation Systems: Influence of driver factors" by Dr. Nagendra VR Assoc. Prof., IIT Bombay, conducted by Dept. of Civil Engg., GMR Institute of Technology.
- ◆ Offline Workshop on "How to crack GATE" by Vishal Gupta (2020-2021 passed out), Alumni-GMRIT on 01-11-2021, conducted by Dept. of Civil Engg., GMR Institute of Technology.
- ◆ Online career counseling session on "Overseas higher education & How to crack GRE, TOEFL and IELTS" by Vignesh Raman, University of Manchester, UK on 20-11-2021, organized by Dept. of Civil Engg., GMR Institute of Technology.

# Student Achievements

## Patent/Copy right:

M. Shushma bearing Roll Nr. 19341A0162 (3yr-B-Section), has registered a copyright on “Women Safety Weapon (dairy Number-6440/2021-CO/L)” .

## Placement:

In the Academic Year 2021-22, during ODD semester 22 students got placed from various reputed companies such as TCS, INFOSYS, WIPRO JSW STEEL, ZOHO, COGNIZANT, ACCENTURE, VERZEO and Pennant Technologies with Highest CTC of Rs. 5.5 LPA.

## Higher Studies

### Certificate and Add-on Program

1. One student has completed 26 hours online course on “Excel Skills for Business: Essentials” certified by Coursera on 24-Nov-2021
2. One student has completed 26 hours online course on “Online course on Machine learning with python” certified by Verzeo on 21-Nov-2021.
3. Total 50 second year, section-B students, attended virtual career counseling on “Cracking GATE Exam for Civil Engineering” on 18-11-2021 (6.30 to 8.00 PM) conducted by Department of Civil Engineering and FORCE- Forum of Civil Engineering, Presidency University, Bangalore.
4. Total 62 students attended webinar on “Scope of Civil Engineering in wind Energy”, 90 minutes on 19-Nov-2021, conducted by Civil Engg. Dept., KPR Institute of Engineering and Technology.
5. Total 2 students attended webinar on “cracking GATE Exam for Civil Engineers ”, on 18-Nov-2021, conducted by Presidency University.

## Awards and Honours

- Two students from Civil Engg. Department has secured 3<sup>rd</sup> prize for Technical presentation on Engineer’s day on 15-September-2021, conducted by GMR Institute of Technology.



## New Recruits



Dr. A. Arun Solomon  
DOJ: 20.10.2021  
Sr. Assistant professor



Dr. PRAGADA SARATH CHANDRA  
DOJ: 13.12.2021  
Sr. Assistant professor



Mr. P. Sarath Chandra  
D.O.J: 13.12.2021.  
Asst. Professor



Mr. PANDIMANI  
D.O.J: 13.12.2021  
Asst. Professor



Dr. Naga Siva Pavani Peraka  
D.O.J: 20.01.2022  
Sr. Assistant Professor