



NOV-DEC 2023

BUILDERS TRENDS



HIGHLIGHTS

- Journal Publications
- Participations
- Placements
- MOOC Courses
- Guest Lectures

Department of Civil Engineering



GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV



THE VISION OF GMRIT

- ❖ To be among the most preferred institutions for engineering and technological education in the country.
- ❖ An institution that will bring out the best from its students, faculty, and staff – to learn, to achieve, to compete and to grow – among the very best.
- ❖ An institution where ethics, excellence and excitement will be the work religion, while research, innovation and impact, the work culture.

THE MISSION OF GMRIT

- ❖ To turnout disciplined and competent engineers with sound work and life ethics.
- ❖ To implement outcome-based education in an IT-enabled environment.
- ❖ To encourage all-round rigor and instill a spirit of enquiry and critical thinking among students, faculty, and staff.
- ❖ To develop teaching, research, and consulting environment in collaboration with industry and other institutions.

DEPARTMENT VISION

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

DEPARTMENT MISSION

- ❖ To provide adoptable education for the graduates in preparing them for a rewarding career to develop academic and research in collaboration with industry and other institutions in the field of Civil Engineering. (M1)
- ❖ To prepare the students as thinking professionals and good citizens who will be able to apply their knowledge critically and innovatively in solving contemporary professional and social problems.(M2)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: Graduates with ability to solve core engineering problems through continuous self-paced learning in tune with changing technologies.

PEO 2: Reinforce engineering skills, critical thinking and problem-solving skills in professional engineering practices and deal with socio-economical, technical and business challenges.

PEO 3: Nurture professionalism with soft skills, managerial & leadership skills and ethical values.

PROGRAM OUTCOMES (POS):

Engineering graduate will be able to:

PO 1: Apply the knowledge of basic sciences and fundamental engineering concepts in solving civil engineering problems
(Engineering knowledge)

PO 2: Identify and define civil engineering problems and investigate to analyze and interpret data to arrive at substantial conclusions.
(Problem analysis)

PO 3: Propose appropriate solutions for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability in accordance with Indian standard codes of practices.
(Design/development of solutions)

PO 4: Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions. **(Conduct investigations of complex problems)**

PO 5: Select/develop and apply appropriate techniques and IT tools to analyze, design and scheduling of activities with an understanding of the limitations and successfully implement and adopt to technological changes in civil engineering with intervention of IT industries **(Modern tool usage)**

PO 6: Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
(The engineer and society)

- PO 7: Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development. **(Environment and sustainability)**
- PO 8: Demonstrate knowledge of professional and ethical practices. **(Ethics)**
- PO 9: Function effectively as an individual, and as a member or leader in diverse teams, and in multi- disciplinary situations. **(Individual and team work)**
- PO 10: Communicate effectively with respect to oral, written and graphical communication **(Communication)**
- PO 11: Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment. **(Project management and finance)**
- PO 12: Recognize the need for, and have the ability to engage in independent and lifelong learning. **(Life-long learning)**

PROGRAM SPECIFIC OUTCOMES (PSOS):

Engineering graduate will be able to:

- PSO 1: Demonstrate the quality and suitability of construction materials **(Program Specific)**
- PSO 2: Ability to apply the practical aspect of analysis, design and safe construction practices **(Program Specific)**

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.

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 69,200/- rupees worth core related works were carried out by the faculty with respect to various specializations.

NATIONAL & INTERNATIONAL JOURNALS

- ❖ Peraka, N.S.P. et.al., Multi-Parametric Delineation Approach for Homogeneous Sectioning of Asphalt Pavements, Infrastructures, 8(10), PP.153. *(Impact Factor: 2.6, ESCI and Scopus Indexed, SJR:Q2)*
- ❖ Sridhar, J. et.al., Utilization of nanomaterials and ceramic waste for sustainable environmental protection, Global Nest Journal. *(Impact Factor: 1.4, Web of Science and Scopus Indexed, SJR:Q3)*
- ❖ Sridhar, J. et.al., 2023. Torsional Modeling of Reinforced Concrete Beam–Column Joint Retrofitted by Aramid Fiber—Experimental and Numerical Analysis, Advances in Civil Engineering, 2023. *(Impact Factor: 1.8, SCIE and Scopus Indexed, SJR:Q3)*
- ❖ Sridhar, J. et.al., 2023. Experimental and predictive evaluation of mechanical properties of kenaf-polypropylene fibre-reinforced concrete using response surface methodology, Developments in the Built Environment, 16, p.100262. *(Impact Factor: 8.2, SCIE and Scopus Indexed, SJR:Q1)*
- ❖ Gokulan. R, et.al., Assessing Groundwater Quality for Sustainable Drinking and Irrigation: A GIS-Based Hydro-Chemical and Health Risk Study in Kovilpatti Taluk, Tamil Nadu. Water, 15(22), p.3916. *(Impact Factor: 3.4, SCIE and Scopus Indexed, SJR:Q2)*
- ❖ Priya, V, et.al., 2023. An experimental study on continuous removal of chromium (VI+) ions from wastewater effluent by using fluidized bed reactor. Global NEST Journal, Vol 25, No 7, pp 25-31. *(Impact Factor: 1.4, Web of Science and Scopus Indexed, SJR:Q3)*

- ❖ U. Siva Rama Krishna, et.al., Experimental studies on Self-Cleaning Concrete by photocatalytic activity for rigid pavements, ARPN Journal of Engineering and Applied Sciences, 18(16), pp.1828-1834. *(Scopus Indexed)*

FACULTY PARTICIPATION

- ❖ B.P.R.V.S.Priyatham attended a 1.5 Weeks online NPTEL FDP (24.07.2023 - 14.10.2023) on “Advanced Reinforced Concrete Design” Conducted by IIT Hyderabad.

FACULTY COMPLETION OF ONLINE COURSES

- ❖ B.P.R.V.S.Priyatham attended a 12 Weeks NPTEL online Course (24.07.2023 - 14.10.2023) on “Advanced Reinforced Concrete Design” Conducted by IIT Hyderabad.
- ❖ Dr. Pandimani attended a 12 Weeks NPTEL online Course (24.07.2023 - 14.10.2023) on “Advanced Reinforced Concrete Design” Conducted by IIT Hyderabad.
- ❖ Dr. Pandimani attended a 3.5 Months NPTEL online Course (July-October 2023) on “Design of Reinforced Concrete Structures” Conducted by IIT Kharagpur.

GUEST LECTURES

- ❖ A Guest Lecture on "Pathway to be an Innovator for Civil and Environmental Engineers" by Dr Milind V Khire held on 15-12-2023 organized by Dept. of Civil Engg., GMR Institute of Technology for Civil final year students.
- ❖ A career counselling session on "Insights into U.S career and Educational Prospects" by Dr Milind V Khire held on 15-12-2023 organized by Dept. of Civil Engg., GMR Institute of Technology for all third year students.

STUDENT'S PARTICIPATION

- ❖ 42 students attended a technical event “Observation Quest” on 09-11-2023, conducted by GMR Institute of Technology in association with the Indian Society for Technical Education (ISTE).

STUDENT EVENTS

- ❖ SECTOR Club of Department of Civil Engineering conducted 01 Event/Activity titled “Samustava Gala” with students participation 30.
- ❖ Green Eco Club of Department of Civil Engineering conducted 01 Event/Activity titled “Eco Shilpa” on 16-Nov-2023 with students participation 12 from all the departments



Institution Innovation Council of Department of Civil Engineering has Organized offline Guest Lecture on the Topic ‘Fueling Innovation: A Journey Entrepreneurship with the Founder of Rocket Wheel’ with the Resource Person Mr. Kondri Harikrishna, CEO & Founder, Rocket Wheel. 55 Students have participated in this event.



Institution Innovation Council of Department of Civil Engineering has Organized Online Guest Lecture on the Topic 'Future Trends on the Evolution of Drones in the Construction Sector' with the Resource Person Mr. Sunil Nandipati, Assistant Professor, Department of Civil Engineering, GITAM University. 111 Students have participated in this event.

PLACEMENTS

- ❖ The following students have placed in **LARSEN & TOUBRO LTD.** with the package of 6.25 LPA.

S.No.	JNTU No.	Name
1	20341A0123	Dharimisetti Hemavardhan
2	20341A0114	Budida Vinay Kowshik
3	20341A01C3	Yatham Ravi Teja
4	20341A0152	Kota Venkata Bhavya Sree
5	21345A0109	Kongarapu Sai
6	21345A0114	Ramoju Mohan Kumar

- ❖ The following students have placed in **INMOVIDU TECH** with the package of 7 LPA.

S.No.	JNTU No.	Name
1	20341A0172	Nammi Balakrishna
2	20341A0183	Penta Vanitha
3	20341A0197	Reddi Shreya
4	20341A01A5	Sanapala Sri Manikanta
5	20341A01B3	Tirumareddi Rohit Kumar

- ❖ The following students have placed in **MGH INFRASTRUCTURES** with the package of 5 LPA.

S.No.	JNTU No.	Name
1	20341A0130	Gainedy Geethika Mahalakshmi
2	20341A0158	Landa Chaitanya

Compiled By:
Dr.A.Arun Solomon,
Assistant Professor,
Department of Civil Engineering,
GMRIT, Rajam