

# GMR Institute of Technology

An Autonomous Institute Affiliated to JNTU-GV, Vizianagaram



## GARIT

Training Tomorrow's  
Engineers Today

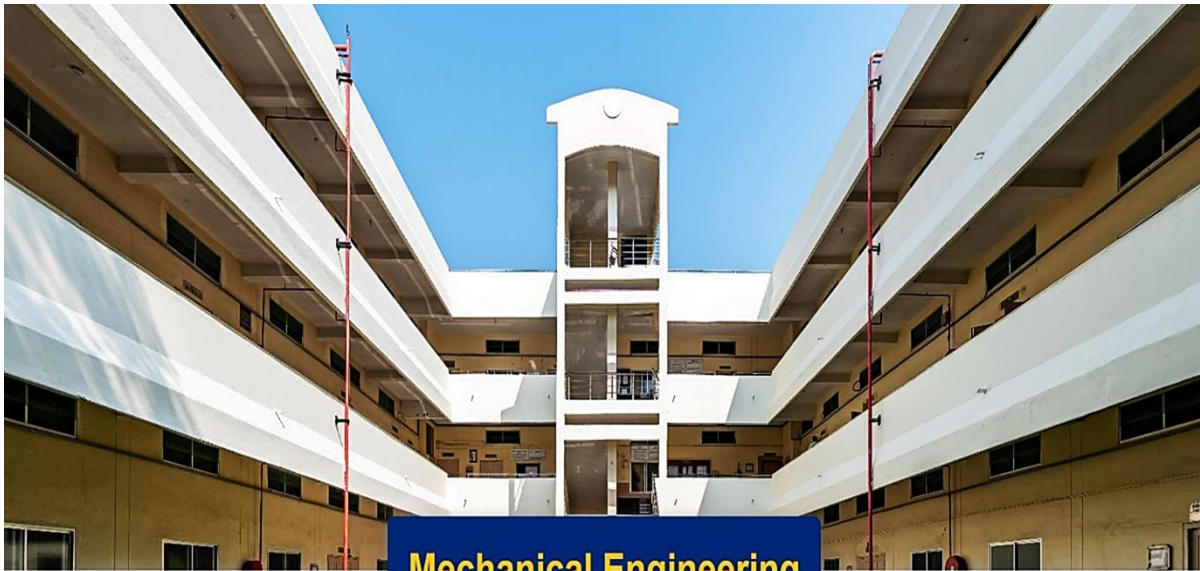
Department of Mechanical Engineering

# NEWSLETTER

**MAY- JUNE**

**2024**

**ISSUE- 3**



**Mechanical Engineering**

## ABOUT US

Since from the inception 1997 the department is grown with all paces and bagged many laurels at university level. Department is able to produce universal engineers with competitive salaries. Our alumni are the strength of department in providing assistant in all aspects like placements, career development etc. department is rich in qualified and Experienced faculty and state of art laboratory facilities. A desire can change nothing, a decision can change something but a determination can change everything. For sure Department of Mechanical Engineering is strongly determined to provide its students a successful career.

## Vision

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

## Mission

- To provide an adoptable education for the graduates in preparing them for a rewarding career to develop academics and research in collaboration with industry and other institutions in the field of Mechanical Engineering.
- 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.

Head of the  
Department

### Dr. G. Sasikumar

Professor,  
Department of Mechanical  
Engineering



### Dr. Bappa Mondal

Assistant Professor,  
Department of Mechanical  
Engineering

Faculty  
Coordinator

## Events and Achievements

- Dr. B V Suresh awarded for successful completion of Orientation Program on “NAAC Peer Team Visit: Focus on Qualitative Metrics” conducted by ARCNET India, on 8th May, 2024.
- Dr. G. Sasikumar completed a NPTEL course on Supply Chain Analytics offered by IIT Roorkee.
- Dr. G Janardhan, Dr. U Sudhakar, Dr. G.V.S.S Sharma completed NPTEL course on Programming in Python.
- Mr. A T Paary, Deputy General Manager, L&T Chennai delivered a Guest Lecture on “Piping Engineering in Petrochemical Industry” from 24.05.2024 to 25.05.2024.





• Department of mechanical Engineering conducted a Project Expo in association with Standard Club on 25.05.2024.



- Dr Prashant Kumar Choudhary completed edx course on Introduction to MATLAB.
- Dr. G. Janardhan, Dr. Bappa Mondal, Dr. Pankaj Kumar completed edx courses on Python Basics for Data Science, Incorporating Renewable Energy in



Electricity Grids, SOLIDWORKS CAD Fundamentals.

## Placements Achievements

- 1 student got selected for Hyundai motors 4.5 LPA.
- 17 students got selected Meraqui limited 2 LPA.

## Publications

### International Journals:

- Bappa Mondal et al, "Teaching learning optimization-based sliding mode control for frequency regulation in microgrid", Electrical Engineering, ISSN: 1432-0487, SCIE, Q2, <https://doi.org/10.1007/s00202-024-02422-8>
- S Chiranjeeva Rao et al. "Machine learning-based modeling of variable compression ratio engine performance and emissions with JME-ZnO nanoemulsion", Energy Sources, Part A: Recovery, Utilization and Environmental Effects, ISSN: 1556-7230, SCIE, Q2, <https://doi.org/10.1080/15567036.2024.2346159>
- Sharma, G.V.S.S., Rao et al. "Process capability study of domestic organic waste composting process – a pilot scale case study in rural India", International Journal of Environment and Waste Management, ISSN: 1478-9868, ESCI and Scopus, Q3, <https://doi.org/10.1504/IJEW.2024.137946>
- Sanjay Kumar Gupta et al. "Experimental study on flow boiling heat transfer augmentation of novel zinc oxide coated copper hybrid nanofluids", Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, SCIE, ISSN: 2041-2983, Q2, <https://doi.org/10.1177/09544062231213203>
- Bade Venkata Suresh et al. "Effect of Cr<sup>3+</sup> substitution on the structural and magnetic properties of Co-Cu-Zn nano ferrites", Inorganic Chemistry Communications, SCIE, ISSN: 1879-0259, Quartile not shown (Elsevier publications), <https://doi.org/10.1016/j.inoche.2024.112534>
- S. Ravi Babu et al. "Effect of inclination and thermoelectric material on the performance of solar PV-thermoelectric cooling system", Ecological Engineering and Environmental Technology, 25(7), 2024, pp. 251-259. <https://doi.org/10.12912/27197050/188599> (Indexed in SCOPUS).
- S. Ravi Babu et al. "Thermophysical properties of MWCNT-Alumina/water nanofluid and their influence on the performance of free convection heat transfer" International Journal of Advanced Technology and Engineering Exploration, Vol 11(114), pp. 805-818. <http://dx.doi.org/10.19101/IJATEE.2023.10102112> (Indexed in SCOPUS).
- Janardhan, G. et al. Production and modifications of biochar to engineered materials and its application for environmental sustainability: a review. Biochar 6, 62 (2024). <https://doi.org/10.1007/s42773-024-00350-1> SCI Q1 Impact factor:13.
- Ch Vinod Babu et al, A study on the microhardness and corrosion behavior of

the ZnO and SiC reinforced multi layer electroless nickel coating, Australian Journal of Mechanical Engineering, ISSN: 1448-4846, Scopus, Q3, <https://doi.org/10.1080/14484846.2022.2133402>

• Sharma G.V.S.S. et al. "Post-COVID-19 era: An Enabler for the Implementation of Blended Learning in Compliance With the NEP 2020", International Journal of Educational Reform, ISSN: 1056-7879, Scopus, Q3, <https://doi.org/10.1177/10567879221112059>

### **FDP attended**

• Dr. Bade Venkata Suresh, Dr. S Ravi Babu, Dr. Y Sireesha, Dr. M. Vykunta Rao, Dr. S Chiranjeeva Rao, Dr. Ch Vinod Babu, Dr. K Siva Prasad, Dr. Bappa Mondal, Dr. M Krishna Prasad, Dr. Ch Ramya, Dr. U Sudhakar attended FDP on "Enhancing Research Excellence-A Comprehensive Exploration of Optimization Techniques" organized by GMRIT on 22<sup>nd</sup> April 2024 to 26<sup>th</sup> April 2024

• Dr. Bappa Mondal and Dr. Pankaj Kumar attended a One Week Hybrid mode Faculty Development Program on "Employing Industrial Quality Management Systems for Quality Assurance in Outcome-Based Education (OBE)" Date: 19th June to 24th June, 2024 organised by Department of Mechanical Engineering, SVERI's College of Engineering, Pandharpur (An Autonomous Institute).

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