

# GMR Institute of Technology

An Autonomous Institute Affiliated to JNTU-GV, Vizianagaram



## GARIT

Training Tomorrow's  
Engineers Today

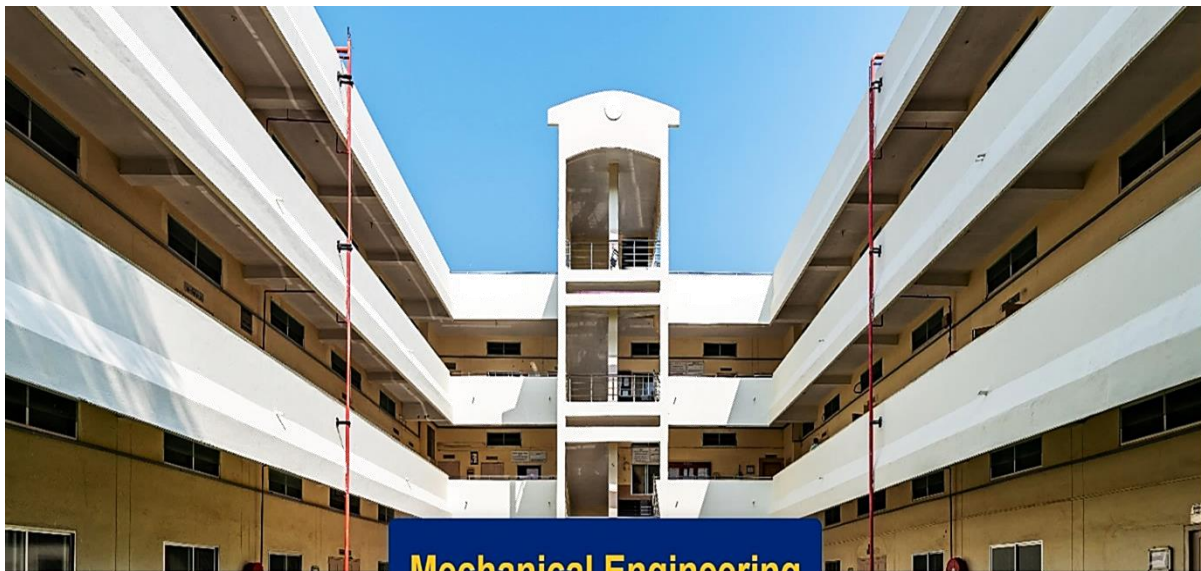
Department of Mechanical Engineering

# NEWSLETTER

**JULY- AUGUST**

**2023**

**ISSUE- 4**



**Mechanical Engineering**

## **ABOUT US**

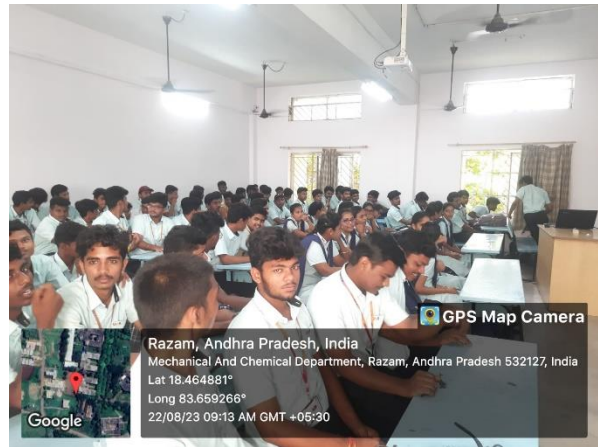
Since from the inception 1997 the department is grown with all paces and bagged many laurels at university level. Department is able to produce universal engineers with competitive salaries. Our alumni are the strength of department in providing assistant in all aspects like placements, career development 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.

## Events and Achievements:

➤ Our final-year students (D. Bharath-20341A0334, B. Ajay Chandra Mouli-20341A0319, D. Anupama-20341A0330, Ch. Bhaskar-20341A0325) participated in "Institute level Startup Idea Competition-2023", conducted on 11<sup>th</sup> August 2023.



➤ Successfully conducted two-days orientation program for the 3<sup>rd</sup> semester students (2022 -2026 Batch) during 22<sup>nd</sup> and 23<sup>rd</sup> August 2023.



➤ Our students participated in 3<sup>rd</sup> Anniversary of the National Education Policy (NEP) 2020 and 2<sup>nd</sup> edition of the Akhil Bhartiya Shiksha Samagam on 28<sup>th</sup> August 2023.



➤ Our students participated in an Expert Talk delivered by Mr. T. Vijaya Bhaskar, Managing Director, Bharath Oshadhi Raksha Foundation in online mode on “Innovation, Entrepreneurship and Start-up for Rural Development” on 29<sup>th</sup> August 2023 to Celebrate India's the G20 Presidency organized by MIC Driven Activity.

An expert talk on  
"Innovation, Entrepreneurship and Start-up for Rural Development"

29<sup>th</sup> August 2023  
3.00 PM to 4.00 PM  
Online Microsoft Teams

T. Vijaya Bhaskar  
Managing Director

START UP INNOVATIVE  
BORF  
Bharath Oshadhi Raksha Foundation

➤ K. Sujatha - (21341A0353)- 3rd year Sec A, placed 2<sup>nd</sup> position in Running in National Sports Day Celebrations held on 29<sup>th</sup> August 2023 at GMR Sports Arena, GMRIT, Rajam.



### Placements Achievements:

➤ Prudvi Bangari (20341A0310), a final year student of Sec A (2020 – 2024 Batch) is placed in **Bosch**.

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**GMR Institute of Technology**  
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532127, VIZIANAGARAM , AP

*Congratulations!*

**Batch -2024**  
for Selection at

**BOSCH**

B. Prudhvi  
B. Tech Mechanical

**Department of Mechanical Engineering**

### Publications:

#### International Conference:

➤ G. Sasikumar et al., Performance Analysis of 700 KW Solar PV Grid-Connected System: An Empirical Study. In: Tripathy, S., Samantaray, S., Ramkumar, J., Mahapatra, S.S. (eds) Recent Advances in Mechanical Engineering. ICRAMERD 2022. Lecture Notes in Mechanical Engineering, ISSN: 2195-4364, Q4, [https://doi.org/10.1007/978-981-19-9493-7\\_52](https://doi.org/10.1007/978-981-19-9493-7_52)

#### International Journals:

➤ G.V.S.S. Sharma et al., “Thinking Through Art–A creative insight into mechanical engineering education”, Thinking Skills and Creativity, ISSN: 1871-1871, SSCI, Q1, p.101341, <https://doi.org/10.1016/j.tsc.2023.10134>

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<https://www.sciencedirect.com/science/article/abs/pii/S1871187123001104>

➤ G. Sasidhar et al., "Investigation on Mechanical Properties of Fabricated Aluminium 5000 Series using Finite Element and Artificial Intelligence Methods." International Journal of Vehicle Structures and Systems, ISSN: 0975-3540, Scopus, Q4, 15.2 (2023). <https://doi.org/10.4273/ijvss.15.2.07>, <https://yanthrika.com/eja/index.php/ijvs/article/view/2570>

➤ T. R. Vijaybabu et al., "High Thermal Conductivity Polymer Composites Fabrication through Conventional and 3D Printing Processes: State-of-the-Art and Future Trends", Macromolecular Materials and Engineering, ISSN: 1439-2054, SCIE, Q1, <https://doi.org/10.1002/mame.202300001>, <https://onlinelibrary.wiley.com/doi/full/10.1002/mame.202300001>

➤ Alagumalai, A et al., "Machine learning in biohydrogen production: a review", Biofuel Research Journal, 10(2), ISSN: 2292-8782, ESCI and Scopus indexed, Q1, pp.1844-1858, DOI: [10.18331/BRJ2023.10.2.4](https://doi.org/10.18331/BRJ2023.10.2.4), [https://www.biofueljournal.com/article\\_172023.html](https://www.biofueljournal.com/article_172023.html)

➤ Babu, S.R et al., "Experimental Investigation on Free Convective Heat Transfer Performance of Oxide Nanofluids Along a Vertical Cylinder", Ecological engineering & environmental technology, 24(5), pp.185-194, ISSN: 2719-7050, ESCI

and Scopus, Q3, <https://doi.org/10.12912/27197050/165902>,

<http://www.ecoet.com/Experimental-Investigation-on-Free-Convective-Heat-Transfer-Performance-of-Oxide,165902,0,2.html>

➤ Maji, Ambarish et al., "Numerical investigation and optimisation of flat plate solar collectors using two swarm-based metaheuristic algorithms." Engineering Analysis with Boundary Elements, ISSN: 1873-197X, Vol.156, pp. 78-89, SCIE, Q1, <https://doi.org/10.1016/j.enganabound.2023.08.008>,

<https://www.sciencedirect.com/science/article/abs/pii/S0955799723004095>

➤ Gupta, Sanjay Kumar et al., "Effect of Novel Cu@ ZnO Hybrid Nanofluids on Pool Boiling Heat Transfer Performance." International Journal of Thermophysics, ISSN: 0195-928X, SCIE, Q3, Vol.44, no. 9, <https://doi.org/10.1007/s10765-023-03240-z>,

<https://link.springer.com/article/10.1007/s10765-023-03240-z>

➤ K. Simhadri et al., "Effect of changing injection pressure on Mahua oil and biodiesel combustion with CeO<sub>2</sub> nanoparticle blend on CI engine performance and emission characteristics", International Journal of Hydrogen Energy, pp.1-16, ISSN: 0360-3199, SCIE, Q1, <https://doi.org/10.1016/j.ijhydene.2023.03.267>,

<https://www.sciencedirect.com/science/article/abs/pii/S0360319923013903>

**FDP / Workshops:**

- Dr. K Santarao attended FDP on "3D Printing and Rapid Prototyping" organized by Department of Mechanical Engineering, Techno College of Engineering, Agartala 26<sup>th</sup> June 2023 to 30<sup>th</sup> June 2023.
- Dr. Bappa Mondal attended FDP on "3D Printing and Rapid Prototyping" organized by Department of Mechanical Engineering, Techno College of Engineering, Agartala 26<sup>th</sup> June 2023 to 30<sup>th</sup> June 2023.
- Dr. Chintada Vinod Babu attended FDP on "3D Printing and Rapid Prototyping" organized by Department of Mechanical Engineering, Techno College of Engineering, Agartala 26<sup>th</sup> June 2023 to 30<sup>th</sup> June 2023
- Dr. Y Shireesha attended FDP on "3D Printing and Rapid Prototyping" organized by Department of Mechanical Engineering, Techno College of Engineering, Agartala 26<sup>th</sup> June 2023 to 30<sup>th</sup> June 2023
- Dr. Bade Venkata Suresh attended FDP on "Unloking Innovation: Exploring Research, Innovation and Patents (UIERIP-2023)" organized by Shri Vithal Education & Research Institute's College of Engineering, Pandharpur 17<sup>th</sup> July 2023 to 22<sup>nd</sup> July 2023
- Dr. Pankaj Kumar attend FDP on "Application of AI and Optimization Algorithms in Engineering Field" organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 04<sup>th</sup> July 2023 to 08<sup>th</sup> July 2023

### Resource person:

- Dr. Bappa Mondal delivered a talk as a resource person on "Exploring Research and Innovation" organized by Shri Vithal Education & Research Institute's College of Engineering, Pandharpur on 20<sup>th</sup> July 2023.

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