

# GMR Institute of Technology

An Autonomous Institute Affiliated to JNTU-GV, Vizianagaram



**GARIT**  
Training Tomorrow's  
Engineers Today

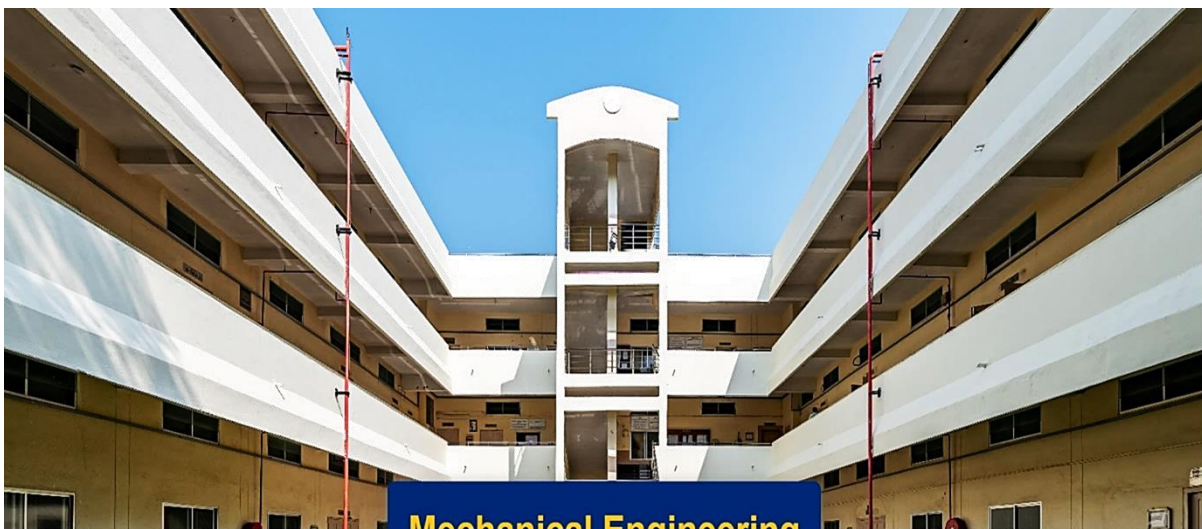
Department of Mechanical Engineering

## NEWSLETTER

**MARCH- APRIL**

**2025**

**ISSUE- 2**



**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 a commitment towards Academics & Research, serving the students in an atmosphere of innovation, critical thinking and making them Industry ready.

## Mission

**M1.** To provide adaptable education in a collaborative and innovative environment in skilling the graduates to solve real world problems in the field of Mechanical Engineering

**M2.** To prepare the students as critical thinking professionals with multidisciplinary research orientation and Innovation

**M3.** To instil ethical values and nurture the graduates who will be able to contribute to society

Head of the  
Department

**Dr. G. Sasikumar**  
Professor,  
Department of Mechanical  
Engineering



**Dr. Bappa Mondal**  
Assistant Professor,  
Department of Mechanical  
Engineering

Faculty  
Coordinator

## Student Coordinators

Sl	NAME	Regi. No.	Batch/ Sec.
1	<b>CH. BALAJI</b>	21341A0325	2021/ A
2	<b>B. JOSHUA</b>	21341A0309	2021/ A
3	<b>G. LALITH KUMAR</b>	22345A0319	2021/ B
4	<b>V. AVINASH</b>	22345A0320	2021/ B
5	<b>V. KRISHNA RAO</b>	21341A03D8	2021/ C
6	<b>P. PAVAN</b>	22345A0338	2021/ C
7	<b>ALLAMPAL LI LOKESH</b>	23345A0306	2022/ A
8	<b>K. SATISH</b>	22341A0346	2022/ A
9	<b>P. SUMANTH</b>	23345A0323	2022/ B
10	<b>A RAHUL</b>	23345A0325	2022/ B
11	<b>T. ANIL</b>	22341A03D7	2022/ C
12	<b>S. JYOTSHNA</b>	22341A03C3	2022/ C
13	<b>B PAVAN KUMAR</b>	23341A0308	2023/ A
14	<b>K LOHITH KARTHIKYA</b>	23341A0342	2023/ A
15	<b>PINNINTI INDU</b>	23341A0372	2023/ B
16	<b>POGIRI PAVAN</b>	23341A0374	2023/ B

## Events and Achievements

- Department of Mechanical Engineering and the Society of Automotive Engineer India (SAE) organized a department level event on “Application of Embedded Systems in Automotive” on 07-03-2025 (Friday).



- ASTRA Team (Go-kert) participated in Aditya Pro-Karting Endurance Championship 2025 at ADITYA UNIVERSITY, Suramplaem and got 3

awards (1st Place - Best Sales, Best Captain & Active Female Participant) during 17<sup>th</sup> - 19<sup>th</sup> March 2025.



- Department of Mechanical Engineering and the Society of Automotive Engineer India (SAE) organized a department level event on on “Wheels of Innovation” on 21-03-2025.



- Dr. AL Naidu received best faculty award on Institute Annual Day.



- Dr. G Sasidhar received best faculty award on Institute Annual Day.



- Dr. BV Suresh received best faculty award on Institute Annual Day.



- Mutcharla Sowjanya Pujitha, 2<sup>nd</sup> year- Mech (23341A0360) participated in girls cricket tournament during Institute Sport Day.
- Sadasivuni Deydeep (24345A0327) 2<sup>nd</sup> year - Mech participated in Basketball and stood Runner during Institute Sport Day.



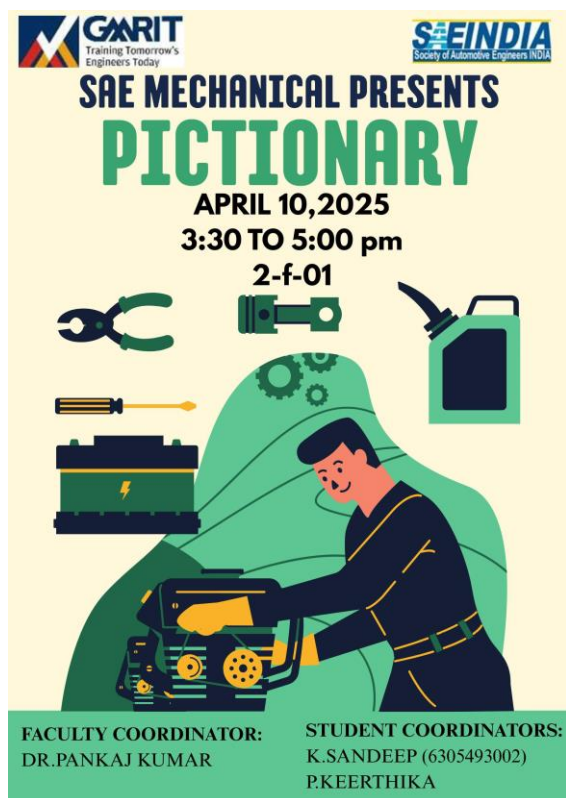
- Basuru Niteesh Kumar (23341A0304) received scholarship during Institute Annual Day



- Reddy Usha Sri (23341A0385) received scholarship during Institute Annual Day



- Department of Mechanical Engineering and the Society of Automotive Engineer India (SAE) organized a department level event on “PICTIONARY” on 10-04-2025



- Department of Mechanical Engineering organised Department level Project Expo conducted on 16.04.2025



- Dr. G V S S Sharma, Dr. K Santarao, Dr. Ch. Vinod Babu, Dr. Sudhakar Uppada, Dr. Shireesha Yegireddi, Dr. Gorti Janardhan, Dr. Sasidhar Gurugubelli, Dr. Bappa Mondal, Dr. Puvvada Naga Lakshmi Pavani, Dr. M Vykuntarao, Dr. S. Chiranjeeva, Dr. S. Ravibabu, Dr. K Sivaprasad successfully completed the 8 weeks NPTEL course titled “Data Science for Engineers” during Jan- Mar, 2025.

- Mechanical Engineering students participated in Celebration of World Creativity and Innovation Day with a Workshop on Design Thinking and Problem-Solving Techniques held on 21.04.2025.

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- Mechanical Engineering students participated in the Inauguration of IP UTSAV and Celebration of World Creativity and Innovation Day held on 21st April 2025. The session focused on Innovation, Startups, and Intellectual Property (IP). The event was organized under MoE's Innovation Cell. 300 students from GMRIT and all IIC members actively participated in the session. The session inspired students to explore creative and innovative solutions.



- Mechanical Engineering students attended a masterclass on "Discover More with Design Registrations" on 22nd April 2025, during the week-long IP Utsav by the Ministry of Education's Innovation Cell.



## Placement

- 132 Mechanical Engineering Students offers received till date for the 2021-2025 Batch.

**MECHANICAL**  
2021-2025 Batch

**132 offers**  
On the Path to 100% placements

VENA ENERGY

JSW

TATA  
TATA ADVANCED SYSTEMS

GAR

POLYCAB

MEDHA

Coromandel

The India Cements Ltd

BEUMER GROUP

INTERARCH

M.S. S. KAL

EAS ENGINEERING SERVICES

AMARA RAJA

Infoys

LTIMindtree

MRF TYRES

[www.gmrir.edu.in](http://www.gmrir.edu.in)

## **Publications**

### International Journals:

1. A Avinash et al. "The physics of phase transition phenomena enhanced by nanoparticles", Applied Physics Reviews, pp 1-48, ISSN 1931-9401, Vol. 12, Issue 1, Scopus, SCI Q1, <https://doi.org/10.1063/5.0200714> , <https://drive.google.com/file/d/1ef3PskyEW339DoM4AjbTFHnSop38bpSo/view> , Published online: 23-01-2025

2. Santarao K et al. "Investigations on tool electrode wear during ultrasonic assisted ECDM process", Machining Science and Technology, pp 93-117, ISSN 1091-0344, Vol. 29, Issue 1, Scopus, SCI Q3, <https://doi.org/10.1080/10910344.2025.2465287> Published online: 24-02-2025

3. Thangaraju T.; Kumar P.; Samuel Dhanasekaran D.B.; Loganathan G.B.; Pape Gowda B.; Sivakumar T.; Liyakat N.A., "Influence of Infill Design in Fabrication of 3D-printed PLA Parts Using FDM, Medziagotyra, pp 85-90, ISSN 1392-1320, Vol. 31, Issue 1, Scopus, SCI Q4, <https://doi.org/10.5755/j02.ms.38235> , <https://matsc.ktu.lt/index.php/MatSc/arti>

[cle/view/38235](https://doi.org/10.5755/j02.ms.38235) , Published online: 19-02-2025

4. K. Siva Prasad, S. Srinivasa Rao, V.R.K. Raju, "Numerical investigation for enhancing HCCI combustion characteristics in DI-CI engine fueled with butanol/diesel blends," *Journal of Engineering Research*, Vol.: 13, pp. 302–319, ISSN: 2307-1877, SCOPUS, SCIE Q3, <https://doi.org/10.1016/j.jer.2023.10.030>. First published: 02-11-2023, March 2025.

5. Sasidhar Gurugubelli, V.V.S. Kesava Rao, "Optimization of hardness, tensile strength and fatigue life of micro plasma arc welded super duplex stainless steel UNS S32750 using grey relational analysis," *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Vol.: 19, pp. 2999–3013, ISSN: 1955-2513, SCOPUS, SCIE Q3, <https://doi.org/10.1007/s12008-024-02179-1>. First published: 13-12-2024, April 2025.

6. K. Venkateswara Reddy, Korada Santarao, Kishore Kumar Kandi, P. Prakash, Durga Venkatesh Janaki, Kumar Raja Gudar, "Fabrication of Fine-Grained Structure in Marine Structural Materials Via Friction Stir Processing to Sustain Marine Environments," *Journal of The Institution of*

*Engineers (India): Series C*, Vol.: 106, pp. 287–297, ISSN: 2250-0545, SCOPUS, <https://doi.org/10.1007/s40032-024-01150-z>. First published: 26-12-2024, February 2025.

7. M. Vykunta Rao, K. Venkateswara Reddy, Bade Venkata Suresh, Ch Vinod Babu, S. Chiranjeevarao, M. V. N. V. Satyanarayana, "Investigation of Vibratory-Assisted TIG Welding on Al6063 Alloy: Microstructural Behavior, Mechanical Properties, and Machine Learning-Based Hardness Prediction," *Journal of The Institution of Engineers (India): Series C*, Vol.: 106, pp. 83–95, ISSN: 2250-0545, SCOPUS, <https://doi.org/10.1007/s40032-024-01128-x>. First published: 12-11-2024, February 2025.

8. Arun K Karuppasamy, Venkateswara Reddy K, Yegireddi Shireesha, Ramaiah Keshavamurthy, Durga V Janaki, Rama BR Chekuri, Marukurti VNV Satyanarayana, "Influence of grain structure evolution and microtexture development on hardness, residual stresses, and wear behavior of AA6061 alloy processed via cryogenic friction stir processing," *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of*

*Process Mechanical Engineering*, Vol.: 239, pp. 1–15, ISSN: 0954-4089, SCOPUS, SCIE Q2, <https://doi.org/10.1177/09544089251321229>. First published: 20-03-2025, March 2025.

9. Venkata Surya Subrahmanya Sharma Gummaluri, Sudarshan Kumar, Sujana Chamarty, Battula Surendra Babu, "Spatial visualization as the impetus for additive manufacturing education – An insight from computer-aided design perspective," *International Journal of Mechanical Engineering Education*, Vol.: 53, pp. 479–499, ISSN: 0306-4190, SCOPUS, SCIE Q4, <https://doi.org/10.1177/03064190251330196>. First published: 28-03-2025, March 2025.

10. S. Ravi Babu, et al. "Effect of titanium dioxide nanoparticle concentration on the performance and emissions of a common rail direct injection engine with jute oil mahua ester biodiesel", *Ecological Engineering and Environmental Technology*, 26(6), 2025, pp. 251-259. <https://doi.org/10.12912/27197050/204339> (Indexed in SCOPUS).

11. B.Sudhakar, M.Vijay, S.Ravi Babu, Synthesis of Hybrid Nanofluids, Properties, and Its Applications—A Comprehensive Review, Lecture Notes in Mechanical Engineering, [https://doi.org/10.1007/978-981-97-6732-8\\_21](https://doi.org/10.1007/978-981-97-6732-8_21) (Indexed in SCOPUS)

#### [National / International Conferences](#)

1. Mondal B.; Krishna B.V.; Suresh B.S.; Rao C.J.; Sekhar B.D.; Rao C.U.M.; Sai A.M., “A Short-Term Review on Self-charging Solar Drone for Different Applications”, International Conference on Recent Advancements in Mechanical Engineering, 2023, Lecture Notes in Mechanical Engineering, pp 217-230, ISBN 978-981-97-4166-3, Scopus, [https://doi.org/10.1007/978-981-97-4167-0\\_19](https://doi.org/10.1007/978-981-97-4167-0_19) First Online: 02 February 2025

#### **FDP attended**

- Dr. Vijaybabu T R attended FDP on “Six-Day International Capacity Building Programme Leveraging Tools for Accelerating Research: Demonstration & Hands-on Experience” organized by the VEL TE Rangarajan Dr. Sagunthala R & D Institute of Technology, Avadi, Chennai from 21<sup>st</sup> April 2025 to 26<sup>th</sup> April 2025

- Dr. G V S S Sharama attended FDP on “Innovation Through AI: Edge and Fog Computing for Smarter Systems” organized by the GMRIT and AUCE from 25<sup>th</sup> March 2025 to 29<sup>th</sup> March 2025

- Dr. G V S S Sharma, Dr. K Santarao, Dr. Shireesha Yegireddi completed the NPTEL-AICTE FDP “Data Science for Engineers”

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