



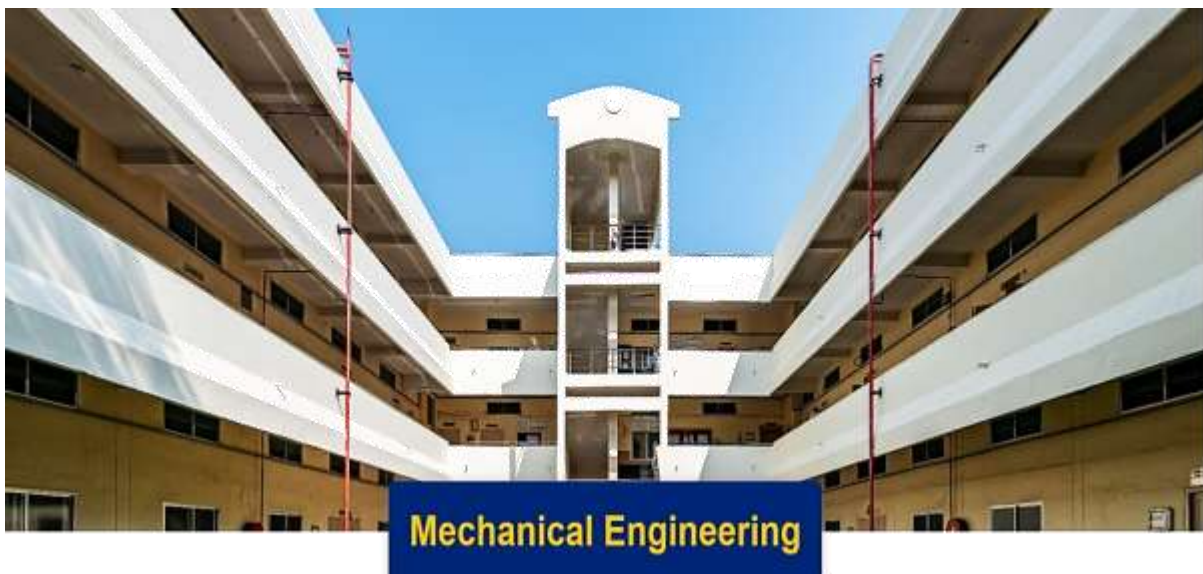
Department of Mechanical Engineering

NEWSLETTER

JULY- AUGUST

2025

ISSUE- 4



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

Newsletter Team

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

						
A. LOKESH 23345A0306 2022 / A	K. SATISH 22341A0346 2022 / A	P. SUMANTH 23345A0323 2022 / B	A. RAHUL 23345A0325 2022 / B	T. ANIL 22341A03D7 2022 / C	S. JYOTSHNA 22341A03C3 2022 / C	B PAVAN KUMAR 23341A0308 2023 / A
						
K L KARTHIKYA 23341A0342 2023 / A	P. INDU 23341A0372 2023 / B	P. PAVAN 23341A0374 2023 / B	C. SAI KAILASH 24341A0321 2024 / A	B. ADITYA 24341A0313 2024 / A	P. BHAVANISA NKAR 24341A0389 2024 / B	M. KOMALI 24341A0377 2024 / B

Events and Achievements

- V Sarath (23341A03A5), a student of mechanical engineering department secured 1st Place in 53Kgs Class in AP State Inter District 2nd Men & Women (Junior) *Unequipped* Power Lifting Championship and 2nd Place in 53Kgs Class in AP State Inter District 2nd Men & Women (Junior) *Equipped* Power Lifting Championship held at ZPHS Ravendrapadu on 26.07.2025 to 27.07.2025.
- A. HARIKA (23341A0301), P. PAVAN (23341A0374), S HEMANTH (23341A0391) participated in NCC-14(A)BN/341/CATC- VI training during 28/07/2025 to 06/08/2025
- ISTE Student Chapter, Department of Mechanical Engineering, GMRIT organized a technical event entitled “GRADE THE GUESS” on 05/08/2025.





- Society of Automotive Engineers (India) Student Chapter and Department of Mechanical Engineering, GMRIT organized a Technical Quiz on 07/08/2025.



- Department of Mechanical Engineering, GMRIT organized a department level Start-up Idea Competition-2025 on 12/08/2025.





- B Omkar (23341A0303) and K Sivani (23341A0343) stood 1st position, K L Karthikya (23341A0342) and P Uday Kumar (23341A0368) stood 2nd position and B. Neharani (23341A0313) and Y. Abhishek (24345a0304) stood 3rd position in Start-up Competition organised by EDC-Cell, GMRIT on 13.08.2025.



- V Sarath (23341A03A5) participated in the national Powerlifting Championship held at Tatanagar from 18.08.2025 to 21.08.2025

- S Deydeep (23345A0327, and M. Kartheek (23341A0379) participated in Inter District Athletics and Basketball Tournament (Amravathi Championship CUP Zonal level-1) during 23/08/2025 to 24/08/2025

- P. Bhavanisankar (24341A0389), M. Komali (24341A0377), A. Santosh Preetham (24341A03A7), B. Aditya- (24341A0313) from Mechanical Engineering Department participated in a program under Swachh Andhra – Swachh Diwas at Dolapeta with the theme “Monsoon Hygiene.” The event highlighted the importance of cleaning drains, preventing water stagnation, maintaining personal and public hygiene, and ensuring food safety to

avoid seasonal diseases during the monsoon organised by the NSS Unit of GMRIT, in association with the Municipal Corporation, Rajam on 23/08/2025.



Publications

International Journals:

1. Chilamkurti Lakshmi Venkata Ranga Sobhanachala Vara Prasad, Puvvada Naga Lakshmi Pavani, Gummaluri Venkata Surya Subrahmanya Sharma, "Impact on Community Well-Being Through Technology Intervention for Sustainable Bamboo Processing Practice – The DMADC

Methodology", *International Journal of Community Well-Being*, Vol.: 8, Issue: 2, pp. xx, ISSN: 2524-5295, Indexed in SCOPUS, <https://doi.org/10.1007/s42413-025-00261-4>, First published: 10.07.2025, July, 2025

2. 1. Turubati Jagadeesh, C. L. V. R. S. V. Prasad, G. Swami Naidu, "Effective CuO/PCM Filled Curved-Quadrilateral Sector Thermal Energy Storage System for Battery Thermal Management", *Energy Storage*, Vol.: 7, Issue: 5, pp. e70231: 1-12, ISSN: 2578-4862, Indexed in SCOPUS, SCIE Q3, <https://doi.org/10.1002/est2.70231>, First published: 04.08.2025, August, 2025

3. 2. Budda Venkatesh, Bade Venkata Suresh, Santosh Patro, "Influence of tool rotation speed on grain refinement, precipitation behavior, and corrosion behavior of friction stir processed AA6063-Cu composites", *Proc IMechE Part L*:

Journal of Materials: Design and Applications, Vol.: xx, Issue: xx, pp. 1–17, ISSN: 1464-4207, Indexed in Scopus, SCI Q3, <https://doi.org/10.1177/14644207251359766>, First published: 03.07.2025, July, 2025

4. 3. M. V. N. V. Satyanarayana, K. Arun Kumar, Adepu Kumar, G. Mrudula, Durga Janaki Venkatesh, Bade Venkata Suresh, Nandipati Govind, "Microstructure and Texture Driven Enhancement of Surface Properties in Water-Cooled Friction Stir Processed AA6061 Alloy", *Journal of Tribology*, Vol.: 147, Issue: 12, pp. 122201-1 to 122201-9, ISSN: 0742-4787, Indexed in Scopus, SCI Q2, <https://doi.org/10.1115/1.4069244>, First published: 13.08.2025, December, 2025

5. 4. Sudhakar Uppada, G. Jamuna Rani, Yarrapragada Kss Rao, Ravikiran Balaga, "Impact of discrete heating on thermal performance of Ag, Cu, and MWCNT nanofluids in

square enclosure: A CFD analysis", *Vacuum*, Vol.: 241, Issue: 11, pp. 114690-1 to 114690-11, ISSN: 0042-207X, Indexed in Scopus, SCI Q2, <https://doi.org/10.1016/j.vacuum.2025.114690>, First published: 21.08.2025, November, 2025

National / International Conferences

1. Sajja Ravi Babu, Chiranjeeva Rao Seela, Sasikumar Gnanasekharan, M. Maruti Rao, "Experimental Investigation on Thermophysical Properties of MWCNT-Al₂O₃/ Water Hybrid Nanofluid for Enhanced Heat Transfer Applications", AI Powered Technology Integration for Sustainability (AI-PTIS-2024), Department of Mechanical Engineering, GMR Institute of Technology, Rajam, 05.07.2024–06.07.2024, *AIP Conference Proceedings*, Vol: 3928, Issue: 1, pp. 040042-1 to 040042-9, ISSN/ISBN: 0094-243X, Indexed in: SCOPUS, <https://doi.org/10.1063/5.0279376>,

First published: 09.07.2025, July, 2025

2. Meesala Srinivasa Rao, Gummaluri Venkata Surya Subrahmanya Sharma, Korada Santarao, "Manufacturing quality assurance of a jute mill through process capability analysis – A DMAIC approach", AI Powered Technology Integration for Sustainability (AI-PTIS-2024), Department of Mechanical Engineering, GMR Institute of Technology, Rajam, 05.07.2024–06.07.2024, *AIP Conference Proceedings*, Vol: 3928, Issue: 1, pp. 040007-1 to 040007-15, ISSN/ISBN: 0094-243X, Indexed in: Scopus, <https://doi.org/10.1063/5.0279230>, First published: 09.07.2025, July, 2025

3. Chiranjeeva Rao Seela, Sajja Ravi Babu, "Experimental insights and analysis for enhancing the diesel engine performance with hybrid nano-enriched biodiesel blends", AI Powered Technology Integration for

Sustainability (AI-PTIS-2024),
Department of Mechanical
Engineering, GMR Institute of
Technology, Rajam, 05.06.2024–
06.06.2024, *AIP Conference
Proceedings*, Vol: 3928, Issue: 1, pp.
030006-1 to 030006-5, ISSN/ISBN:
0094-243X, Indexed in: Scopus,
<https://doi.org/10.1063/5.0279252>,
First published: 09.07.2025, July,
2025

4. Yegireddi Shireesha, Bade Venkata
Suresh, N. Govind, "Exploring
mechanical properties and water
absorption behavior in jute-carbon
composites enhanced with fly ash", *AI
Powered Technology Integration for
Sustainability (AI-PTIS-2024)*,
Department of Mechanical
Engineering, GMR Institute of
Technology, Rajam, 05.06.2024–
06.06.2024, *AIP Conference
Proceedings*, pp. 040012-1 to
040012-12, Vol: 3928, Issue: 1,
ISSN/ISBN: 0094-243X, Indexed in:
Scopus,

<https://doi.org/10.1063/5.0280066>,
First published: 09.07.2025, July,
2025

5. Bade Venkata Suresh, Yegireddi
Shireesha, P. Srinivasa Rao, "Impact
of pesticide content and nutrients on
single slope natural solar drying of
onions compared to open solar
drying process", *AI Powered
Technology Integration for
Sustainability (AI-PTIS-2024)*,
Department of Mechanical
Engineering, GMR Institute of
Technology, Rajam, 05.06.2024–
06.06.2024, *AIP Conference
Proceedings*, Vol: 3928, Issue: 1, pp.
040011-1 to 040011-13, ISSN/ISBN:
0094-243X, Indexed in: Scopus,
<https://doi.org/10.1063/5.0280431>,
First published: 09.07.2025, July,
2025

6. Vykuntarao, M., Vinod Babu
Chintada., Raju, B. M. V. A., & T Siva
Rama Krishna, "Improving machining
productivity through image
processing-based tool wear

monitoring and classification using CNN and ReLU", AI Powered Technology Integration for Sustainability (AI-PTIS-2024), Department of Mechanical Engineering, GMR Institute of Technology, Rajam, 05.07.2024–06.07.2024, *AIP Conference Proceedings*, Vol: 3928, Issue: 1, pp 020036-1to 040042-9, ISSN/ISBN: 0094-243X, Indexed in SCOPUS, <https://doi.org/10.1063/5.0279905>, First published: 09.07.2025, July, 2025

Patent Publication

- Dr S.Ravi Babu, "A NANOFLUID-BASED HEAT TRANSFER SYSTEM AND METHOD FOR COOLING APPLICATIONS", Patent Application no. 202541027154, dated 24/03/2025,

FDP attended

- Dr. Prashant Kumar Choudhary attended FDP on **Micro Teaching for Enhancing Teacher's Performance**

organised by GMRIT RAJAM from 23.06.2025 TO 27.06.2025

- Dr. G. Sasidhar attended FDP on **Micro Teaching for Enhancing Teacher's Performance** organised by GMRIT RAJAM from 23.06.2025 TO 27.06.2025.

- Dr. Bappa Mondal attended FDP on **Cutting Edge Research in mechanical Engineering** organised by Department of Humanities and Science (mechanical Engineering), Ashoka Womens Engineering College, Dupadu, Kurnool, AP during 14.07.2025 to 18.07.2025.

- Dr GVSS SHARMA attended FDP on **QUANTUM COMPUTATION** organised by MNIT Jaipur during 11 July- 2 August 2025.

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