GMRIT
Training Tomorrow's Engineers Today

NEWSLETTER

ISSUE - 5

DEPARTMENT OF CSE

ABOUT US

GMR Institute of Technology was established in the year 1997 by GMR Varalakshmi Foundation – the corporate social responsibility arm of GMR Group – GMRIT offers aspiring engineers high quality technical education. Located in Rajam, Vizianagaram district of Andhra Pradesh, GMRIT provides its learning community state-of-the-art facilities, infrastructure and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real world experiences. It is this emphasis on a well-rounded education that makes GMRIT a preferred institute among engineering colleges in India. It offers nine undergraduate and six Postgraduate programs . All the UG Programs are accredited by NBA under Tier-1(Phase 4) and the institution is accredited by the NAAC with A Grade(3rd Cycle). GMRIT is ranked among top 5 colleges in state of AP and among top 50 in the country level. In placements 95% of the students gets placed every year with a medium salary around 5 LPA and maximum salary of 34 LPA.

PROGRAMS OFFERED

B.TECH PROGRAMS

- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- CSE-Artificial Intelligence and Data Science
- CSE-Artificial Intelligence and Machine Learning
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Information Technology
- Mechanical Engineering

M.TECH PROGRAMS

- CSE
- Environmental Engineering
- Power and Industrial Drives
- Thermal Engineering
- Transportation Engineering
- VLSI and Embedded Systems Design

GMR INSTITUTE OF TECHNOLOGY
An Autonomous Institute affiliated to JNTUGV
VIZIANAGARAM (DIST),532127
ANDHRA PRADESH

FACULTY EDITORS:

1. Mrs. A Bhavani
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2. Mr. S Vinod Kumar
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   III CSE C – 22341A05H4

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 Computer Science and 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.

Program Educational Objectives (PEOs)

1. Employ logical and analytical skills in solving complex real-world engineering problems in the areas of computer Science and allied fields.
2. Adaptable to emerging technologies with enhanced professional skills and ability towards continuous learning, facilitating higher studies and research.
3. Demonstrate professional ethics, leadership qualities and promote inclusive and collaborative growth with human values towards societal interest.

Paper Presentations and Publications (Faculty):

- P. Kanchanamala, RamPrasad Chippada, Tejasri Bennabatthula, Dr. Satish Muppidi, presented a paper titled "AI-Powered Alzheimer's Care: Smart Face Recognition, Medicine Reminders, and Location" in the NKCon2024 IEEE conference during 21st to 22nd September 2024.

International Conference:

- Dangety, Sowjanya, Kasani Vaddi Kasulu, G. Swetha, Zareena Begum, Krishna Mohan Bhashyam, and A. Lakshmanarao. "Exploring Socioeconomic Influences on Life Expectancy through Machine Learning Ensemble Regression Techniques." In 2023 4th International Conference on Intelligent Technologies (CONIT), pp. 1-5. IEEE, 2024.
- P.AnnanNaidu, Implementation of Machine learning and Ensemble learning models for the prediction of CKD and drugs side effect, 5th International Conference Electrical and Electronics Engineering (ICEEE 2024) September 11-12, 2024 Swinburne University of Technology, Australia, Springer Lecture Notes in Electrical Engineering, https://link.springer.com/conference/iceee.

International Journal

- Purushothaman, A., Sriramakrishnan, G. V., Om Prakash, P. G., & Cristin R. A novel fractional rat hawk optimization–enabled routing with deep learning–based energy prediction in wireless sensor networks. International Journal of Communication Systems, e5981. [Indexed by SCIE, IF:1.7 Q2, https://doi.org/10.1002/dac.5981]
- Yanda, Nagamani, and Gudla Prathyusha. "Diagnosing Multiple Chest Diseases with Deep Learning: A Comprehensive Approach Using X-ray Images." International Journal of Computer Information Systems and Industrial Management Applications Vol. 16, no. 3 , pp13-13, 2024. [Indexed by SCOPUS, https://cspub-ijcisim.org/index.php /ijcisim /article /view /728]
- Meesala Sravani,Ch Vidyadhari,S Anjali Devi."Video Recommendation System Using Machine-Learning Techniques", Journal of Harbin Institute Of Technology(New Series), Vol. 31,No.4 pp 24-33,2024, [Indexed by SCOPUS http://10.11916/j.issn.1005-9113.2023097]
- Kalabarige, Lakshmana Rao, D. Krishna, Upendra Kumar Potnuru, Manohar Mishra, Salman S. Alharthi, and Ravindranadh Koutavarapu. "Tree-Based Machine Learning and Nelder–Mead Optimization for Optimized Cr (VI) Removal with Indian Gooseberry Seed Powder." Water, Vol. 16, no. 15 (2024): 2175. [Indexed by SCIE, IF:3 Q1]
- Solomon, A. Arun, and S. Akila Agnes. "MSCAC: A Multi-Scale Swin–CNN Framework for Progressive Remote Sensing Scene Classification." Geographies 4.3 (2024): 462-480 [Indexed by SCIE, IF:1.7 Q2, https://doi.org/10.3390/ geographies4030025]
- Baisakh, Hitesh Mohapatra, and Abhishek Guru. "Behavioral insights into compression: a study of Move-to-Front-or-Middle deterministic online algorithm through sequence classification and characterization." International Journal of Information Technology (2024):1-15.[Indexed by SCOPUS, https://doi.org /10.1007/s41870-024-02218-w]
- Purbey, Suniti, et al. "Adam energy valley optimization-based routing and RF-Spinalnet enabled medical data classification in IoT." International Journal of Machine Learning and Cybernetics (2024): 1-23. [Indexed by SCIE, IF:3.2 Q1, https://doi.org/10.1007/s13042-024-02397-9]

Faculty Achievements:

- Dr. A.V. Ramana and Dr. K. Lakshmana Rao attended the first review of the DST-funded project "IOT enabled Pineapple

Crop Monitoring System through Data Analytics and Deep Learning Techniques" at Uttarakhand State Council for Science (UCOST), Dehradun on 19th September 2024 and 20th September 2024.

- Dr.P.N.Singh, got an opportunity to be the expert member for online evaluation of NEAT proposals of (Round 4.0 also) AICTE, Govt. of India.
- Dr. M. Satish was a Session Chair at the 2024 3rd International Conference for Advancement in Technology (ICONAT) from 13th– 15th September 2024.
- Dr. P. Annan Naidu acted as a Technical Program Committee and Reviewer "5th Congress on Intelligent Systems (CIS 2024)" Organized by CHRIST (Deemed to be University), Bengaluru and Liverpool Hope University, UK September 04-05, 2024.
- Dr. P. Annan Naidu acted as a Technical Program Committee and Reviewer at the International Conference on Sustainable Computing and Intelligent Systems (SCIS 2024), Organized by the University of Canberra, Australia, September 9-10 2024.
- Dr. A.V. Ramana participated and presented a start-up idea in Naavishkar at IIT Tirupati, organized by I-HUB.

- Dr.P.N.Singh acted as an External examiner for PhD Viva Voice at VTU Bangalore on 14th SEP 2024.
- Dr. A.V. Ramana and Dr. K. Lakshmana Rao visited IIT Roorkee Campus (iHUB) and interacted with Mr. Manish Anand CEO and Team.

- Dr.P.N.Singh acted as a resource person in the 5-day online FDP "Transformative teaching and research: Using AI Tools and Adaptive Technologies" during 2nd-6th SEP 2024 organized by the Department of BS&H, GMRIT Rajam.
- Dr. M. Satish was nominated as the co-convener of STEPCONE-2025 (17th Edition)5 Lab Assistants cleared NPTEL course "Python for Data Science".
- Mrs. A.Vineela and Ms. K.B. Krishna Veni cleared the UGC NET exam with 87% and 77%.
- Dr.P.N.Singh invited as an online speaker for the International Conference on Information Communication and Management (ICICM2024), Paris,France, from 6th Nov 2024 to 8th NOV 2024
- Mr. M.Vasudeva Rao has received a reward & Recognition award as part of the 'Star of the Month' for October 2024.

Paper Presentations and Publications (Students):

Institute Related:

Student Highlights:

- ISTE conducted an event "Code Combat" in the Coding lab with 47 participants on 13-09-2024, the winners were Sadik and Karthik and the runners are Nava Chaitanya and Naveen
- Five students are selected for ISTE student chapter coordinators forAY24-25

- ACM Student chapter conducted event name " Exploring Smart India Hackathon" on 4th September with 111 participants at " Deep Learning Lab" and speaker is Mr K Charan (2020-2024 passedout) SIH Winner 2023.

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- ACM and ACMW Students chapter conducted event name " GreenHorn24" on 12th September with 226 participants at Auditorium and Guests for the event are Mr K Charan (2020-2024) and Ms P Manasa (2019-2023).
- ACMW Student chapter conducted event named " Internal Hackathon for SIH 24" the number of participants are 98and the event is conducted at Data Analytics lab
- ACMW student Chapter has conducted an event Name " Design Dash" exclusive for 1st year students the no of participants are 33 and the event is conducted in Coding Lab. results will be shared soon.
- Five students are selected for Coding club coordinators forAY24-25

- 23341A0502(Abdul Yunus),23341A052(Bishoyee Anwesha),23341A05G0(Meka Venkata Krishna),23341A05J3(P. Satwika),23341A05L2(Regana Akash),23341A05M7(Rokkam Sohinie),23341A05N6(Tamada Ramya) selected for ACM and ACMW Cordinators for AY24-25

Students Achievements:

- 3rd year student Mr. K. Rajesh Kumar was elected Vice President of the Student Council for the academic year 2024-25.
- 2nd year student Ms. M. Nandini Varma was elected as Joint Secretary 4 NCC and CS of the Student Council for the academic year 2024-25.

Alumni:

- Alumni Mr K Charan (2020-2024) and Ms P Manasa (2019-2023) guests an event "GreenHorn24" on 12th September 2024.

- Alumni Mr K Charan (2020-2024) speaker for the event " Exploring Smart India Hackathon" on 4th September 2024.

- Alumni Ms CH. Bhavya (2020-2024) interacted with final-year students about PalTech campus recruitment tips on 16th September 2024.

Workshops/Conference Attended (Faculty):

- Dr. Satish Muppidi, participated in a Five-day online Faculty Development Program titled "Transformative Teaching and Research: Using AI Tools and Adaptive Technologies" organized by the Department of Basic Sciences & Humanities, GMR Institute of Technology, Rajam in collaboration with Andhra University College of Engineering, Visakhapatnam from 02nd – 06th September 2024.
- Dr. G. Stalin Babu participated in an online short-term course on "Deep Learning for Engineering Applications" conducted by NITTTR, Chandigarh from 2nd SEP 2024 to

6th SEP 2024

- Dr. A.V. Ramana participated and pitched a solution for the hackathon themes at the Amaravathi Drone Hackathon 2024 held on 18th & 19th October 2024.
- Dr. P.Annan Naidu participated FDP on "Data Science and Machine Learning Applications for Engineering and Sciences" in Shri Vishnu Engineering College for Women(A), Bhimavaram from 21-10-2024 to 27-10-2024.
- Dr. M.Satish participated FDP on "Data Science and Machine Learning Applications for Engineering and Sciences" in Shri Vishnu Engineering College for Women(A), Bhimavaram from 21-10-2024 to 27-10-2024.
- Mr.D.Ganesh participated FDP on "Data Science and Machine Learning Applications for Engineering and Sciences" in Shri Vishnu Engineering College for Women(A), Bhimavaram from 21-10-2024 to 27-10-2024.

Workshops/Conference conducted (Faculty):

Seminars/Workshops conducted (Students):

- Coding club conducted an workshop on "Career Guidelines: PLAN YOUR FUTURE BEFORE HEAD" in the CSE seminar hall with 30 participants on 03rd SEP 2024 from 3:30PM to 5:00PM.

- CSI Conducted an event WOW (Web

Overview Workshop) with 75 participants in Deep Learning Lab 3:30 pm – 5:00 pm from 16/10/2024 to 18/10/2024

Visitors / Guest Lectures:

Training and Placement:

❖ **Placements:**
- Cognizant Campus Drive - Round -1 (English assessment), Round -2 (Technical), and Round -3 (Aptitude) completed on 11-09-24, 19-09-24, and 24-04-24 respective dates. from CSE -190 members are eligible for the drive
- Vikas(21341A0598) and L Chandini(21341A0594) from CSE got selected for PalTech Campus drive held on 17-09-2024- with 6LPA
- Efftronics campus drive Round-2 was held on 20-09-2024 in the campus and 12 students from CSE are shortlisted.
- Product-based training started for creamy layer students by CCC Organization 38 members are attending for the training
- Cognizant Campus Drive - for 4LPA- 27 Members and 6.5LPA- 4 Members are shortlisted for Final Interview
- Efftronics campus drive -12 from CSE are shortlisted for the Next Round at Efftronics, Mangalagiri Campus on 7&8th Nov 2024
- Nissum Campus Drive - confirmed and 157 members from CSE are eligible.
- Product-based training started for creamy layer students by CCC Organization 38 members are attending for the training
- The Service Now Certification Program was initiated for 2026 passouts (3rd years). SmartBridge conducted a screening test on 19th Oct 2024, and 58 members were shortlisted from CSE.

Others:
- 3 Faculties visited various Industries at Vishakhapatnam and Hyderabad to meet students of Full Semester Internship from 23rd September to 24th September 2024.