

Department of Information Technology

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About GMRIT

Newsletter Issue-1

www.gmr.it.org

GMR Institute of Technology is situated at Rajam, a small industrial town about 100 KMs from the 'city of destiny', Visakhapatnam in Andhra Pradesh. The campus of the institute is spread over sprawling 117 acres of land. The lush sylvan and idyllic surroundings at the heart of the agricultural belt, offer an ideal setting for higher studies. The institute is affiliated to the Jawaharlal Nehru Technological University, Kakinada and is approved by AICTE New Delhi. The institute has been accredited NAAC – 'A' grade of UGC. The institution is also having ISO 9001:2008 Quality Systems. The department of IT has been accredited by National Board of accreditation (NBA). GMRIT offers 4-year B.Tech. Programs in seven core disciplines, 2-year M. Tech programs in six specializations. The approved annual intake of the institute is 1038 students. The institution received the grant extension of autonomous status for a period of ten years w.e.f 2018-19 to 2027-2028.

About IT Department

Vision

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

Mission

To provide adoptable education for the graduates in preparing them for a rewarding career to develop academic and research in collaboration with industry and other institutions in the field of Information Technology. **(M1)**

To prepare the students as thinking professionals and good citizens who will be able to apply their knowledge critically and innovatively in solving professional and social problems. **(M2)**

Overview

GMRIT's Information Technology Department was formed in 1999 and covers the technical attributes of

IT, its multiple applications and the appropriate management of IT resources. Courses especially focus on the application of IT in various information and administrative systems. The annual intake of this Department is 120 students.

Facilities & Infrastructure

Three state-of-the-art laboratories - Interactive, Networking, & Unix Labs.

- Over 170 high configuration branded (HP) systems and two Intel Xeon dual processor servers.
- 1 GBPS Bandwidth Internet connectivity from BSNL & Airtel through dedicated leased lines.
- Video conferencing, Digital library, e-journals, e-learning & e-book facilities through INDEST (Indian National Digital Library in Engineering, Science & Technology) membership.
- CTLP and Video Courses on LAN.
- LAN connectivity through OFC, Wireless & Intranet.
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Major Courses Offered

- Data Structures
- Computer Networks
- Computer Organization
- Object Oriented Programming through Java
- Operating Systems
- Data Base Management System

- Middleware Technologies
- Software Engineering
- Information Security
- Object Oriented Analysis and Design
- Cloud Computing
- Distributed Databases
- Human Computer Interaction
- Design and Analysis of Algorithms
- Web technologies
- Network Programming
- Data Warehouse & Data Mining
- Data Analytics

Academic Achievements

Papers Published in Journals

1. Rani, V. V., et. al, published a paper on "IoT based healthcare system using fractional dung beetle optimization enabled deep learning for breast cancer classification". Journal: *Computational Biology and Chemistry*, 114, 108277. <https://doi.org/10.1016/j.compbiolchem.2024.108277>. (Q2, impact factor SJR (2023): 0.5).
2. Rani, V. V., et. al, published a paper on "A hybrid Efficient Net-Dbne Alexnet for brain tumor detection using MRI images". Journal: *Computational Biology and Chemistry*, 115, 108279. <https://doi.org/10.1016/j.compbiolchem.2024.108279>. (Q2, impact factor SJR (2023): 0.5).

Patents

1. Chowdada Bharathi published a patent titled on "MACHINE LEARNING-POWERED PREDICTIVE ANALYTICS SYSTEM FOR EARLY DETECTION OF PARKINSON'S DISEASE USING VOICE ANALYSIS AND IOT SENSORS". Application no: .202541003755.

- date of filing: 16/01/2025, publication date: 24/1/2025.
- Mr. A. Ravi Kishore published a patent titled on "ADVANCED DEEP LEARNING FOR LOW-LIGHT VIDEO ENHANCEMENT: BOOSTING CLARITY AND VISIBILITY". Application no: 202541001450 A. date of filing: 07/01/2025, publication date: 17/1/2025.
 - Dr. Jayasri Kotti published a patent titled on "A SYSTEM AND METHOD FOR FORECASTING STUDENT SUCCESS WITH PREDICTIVE MODEL FOR ACADEMIC PERFORMANCE". Application no: 202441064013 A. date of filing: 24/08/2024, publication date: 7/2/2025.

FDP's

- Mrs. Kancherla Santoshi successfully completed 5days FDP on "Image Processing and Pattern Recognition" Organized by Electronics and ICT Academy IIT Roorkee in association with Gandhi Institute of Engineering and Technology University, Odisha held from 20.01.2025 to 25.01.2025.
- Ms. B. Padmaja successfully completed 5days FDP on "IOT with Drones" Organized by Electronics and ICT Academy IIT Kanpur held from 28.01.2025 to 1.02.2025.

PLACEMENTS

- 10 students selected for LTI Mindtree with 4.0 LPA.
- R. Sushmitha (Roll no: 21341A12A7) student selected for Modak with 4-6 LPA.

- B. Bhargav (Roll no: 21341A1221) selected for GMR Group with 4 LPA.
- IT Department successfully organized WEB ASTRA on 27-02-2025&28-02-2025 with 225 students.



5.

In this event the **Winners** are: K. Yeswanth (23341A1258), G. Harika (23341A1240), G. Manvitha (23341A1239), G. Revanth(23341A1241).

The **Runners** are: R. Anil Kumar(23341A12A2), S. Haneesh (23341A12Bo),Y. Prasanna(23341A12Do), K. Chaitanya sri (24345A1213).

- IT Department successfully organized TECHNO HUNT EVENT on 27-02-2025 with 93 students.



7. In this event the **Winners** are: D. Prudhvi (22341A1233), A. Mallikarjuna (22341A1207) and K. Prakash (22341A1262).
8. The **Runners** are: V. Teja (23341A0308), L. Rajesh (23341A05E7) and M. Vijay (23341A1268).
9. IT Department successfully organized Large Language Model (LLM) WORKSHOP with 90 students.

