

Department of Information Technology

March-April 2025

About GMRIT

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

Publications

1. Karrothu, A., et. al, published a paper on "A novel skin cancer detection architecture using tangent rat swarm optimization algorithm enabled DenseNet". Journal: Network, 2025 Feb 28:1-31. doi:10.1080/0954898X.2025.2452274. Epub ahead of print. PMID: 40019033.
2. Karrothu, A., et. al, published a paper on "Gazelle-Dingo Optimization and Ensemble Classification: A Hybrid Approach for Intrusion Detection in Fog Computing". Journal: Transactions on Emerging Telecommunications Technologies, 36(3), DOI: <https://doi.org/10.1002/ett.70084>. (Q1, impact factor SJR (2023): 0.89).
3. A.K Rout et. al, published a paper on "Short-term forecasting of electricity price using ensemble deep kernel based random vector functional link

network" Journal: Applied Soft Computing, DOI: <https://doi.org/10.1016/j.asoc.2025.113012>. (Q1, impact factor SJR (2023): 1.84).

FDP'S

1. Dr. V. Vasudha Rani successfully completed One Week Online FDP titled on " **Quantum Computing in Artificial Intelligence and Machine Learning using Qiskit** " Organized by Department of CSE-AI&ML/AI&DS, GMR Institute of Technology, Rajam and the Department of Information Technology & Computer Application, Andhra University College of Engineering held from 03.03.2025 to 07.03.2025.
2. Dr. V. Vasudha Rani, Dr. Ajith Kumar Rout, Dr. K. Jayasri, Dr. K. Aravind, Dr. P. Srihari, Mrs. P. Padmavathi. Mrs. K. Santhoshi, Ms. B. Padmaja, Ms. Ch. Bharathi, Ms. P. Pooja, Ms. G. Sri Rupa, Mr. A. Ravi Kishore, Mr. Harikrishna, Mrs. V. Ramya, Mrs. K. Swathi successfully completed One Week Online FDP titled on "Emerging Trends in Data Analytics and Visualization using cloud Technologies" Organized by Department of Information Technology & Computer Application, Andhra University held from 17.03.2025 to 21.03.2025.
2. 21341A1228- Ch Saikanth Selected in Delloite with 4LPA.
3. From IT Department 5 students selected for HTC with 4.0 LPA.
4. B. Yamuna(21341A1225) and B. Uday Teja (Roll no: 21341A1211) student selected for GMR Group with 4.0 LPA.
5. Ch. Bala Sudheer Kumar (Roll no: 21341A1230) selected for Possible Work with 8 LPA.

PLACEMENT DATA

1. 21341A1291-P Sarath Kumar, 2235A1202-Bala Krishna selected in Kalgudi Digital PVT LTD with 3.6LPA.