

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 EEE 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. Daniya, Thavasilingam, and Vigneshwari Srinivasan. "Shuffled shepherd social optimization based deep learning for rice leaf disease classification and severity percentage prediction." *Concurrency and Computation: Practice and Experience* (2022): e7523. (SCIE Indexed)(<https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.7523>).
2. Daniya, T., and S. Vigneshwari. "A novel Moore-Penrose pseudo-inverse weight-based Deep Convolution Neural Network for bacterial leaf blight disease detection system in rice plant." *Advances in Engineering Software* 174 (2022): 103336.(SCIE Indexed)(<https://www.sciencedirect.com/science/article/abs/pii/S096599782200237X>).

3. Pendela Kanchanamala, Ramesh Karnati, Palagiri Vijaya Bhaskar Reddy, "Hybrid optimization enabled deep learning and spark architecture using big data analytics for stock market forecasting", Concurrency Computation Practice and Experience, Wiley online Library, 27-Jan-2023, pp.1-25. DOI: 10.1002/cpe.7618 -SCI indexed.
4. T. Daniya and P. Padmavathi have successfully cleared the **"WIPRO Certified Faculty"** Assessment.
5. Prof. P.Kanchanamala got Certificate of Appreciation for AWS Academy Graduate-Machine learning foundations course completion (20 hours) and Certificate of Appreciation for AWS Academy Cloud foundations course completion (20 hours).
6. Ms. Chowdada Bharathi got Certificate of Appreciation for Completion of AWS Academy Introduction to Cloud Semester- 1 (60 hours).
7. Ashutosh Kumar Choudhary has authored a paper "Evolution of low power Blockchain Technology by using iterative Sharding for IOT environment" in IEEE sponsored opju international conference held at op Jindal university ,Raigarh during 8th -10th Feb 2023.
8. Ashutosh Kumar Choudhary got Certificate of Appreciation for Completion of AWS Academy Introduction to Cloud Semester- 1 (60 hours).
9. Ms. Chowdada Bharathi got certificate of completion in "Core Java " from coursera.

### Webinars/Faculty Development Programs

1. Ashutosh Choudhary has attended 5 –days STTP approved by ISTE On **"Emerging Technological Advancements and Practical Applications of Data Science"** Organised by Department of Information Technology held from 16/01/2023 to 20/01/2023, SKN Sinhgad Institute Technology & Science, Lonavala College of Engineering, Andhra University 28th March 2022 to 1st April 2022.
2. Prof. P. Kanchanamala attended 5 days online FDP on Universal Human Values organized by AICTE from 20-2-2023 to 24-2-2023.
3. Mr. Hari Krishna Marrapu has attended 5-days FDP on "Current Trends in Artificial Intelligence and Engineering Applications in the area of machine Learning and Deep Learning " during 6th -10th Feb 2023 at JNTU-GV Vizianagaram.

### Training and Placement

- Kodi Venkatesh(19341A1258) from B.Tech -IT has selected in Tudip Technologies, Pune at a ctc of 4.5lpa.



- A Guest lecture for B.Tech II nd year students has been organized on the topic "Demonstration of Infosys Springboard platform " by Mr. Satyanarayana

Murthy, principal Consultant, Infosys on 23rd feb 2023.

- Phase 1 CRT program has been organised for B.Tech IT 3rd year batch by Wipro certified Faculty Ms. T Daniya and Ms. P. Padmavati.



- GMRIT Women Empowerment Cell in collaboration with ACM(W) conducted an event titled "Triathlon of Triumph" about Successful Women

