

# Department of Information Technology

Nov - Dec  
2024

About GMRIT

Newsletter Issue-6

[www.gmr.it.org](http://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. Dr. V. Vasudha Rani, et.al, published a paper on "A Hybrid EfficientNet-DbneAlexnet for brain tumor detection using MRI Images". Journal: computational Biology and Chemistry, Volume 114, February 2025, 108277. Retrieved from <https://doi.org/10.1016/j.compbiolchem.2024.108279>. (Q2, SJR (2023-impact factor-2.6, cite score-6.1).
2. Dr. V. Vasudha Rani 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, Volume 114, February 2025, 108277. Retrieved from <https://doi.org/10.1016/j.compbiolchem.2024.108279>.

8277. (Q2, SJR (2023-impact factor-2.6, cite score-6.1).

3. Rout, A. K., et.al, published a paper on "Segmentation and classification of brain tumor using Taylor fire hawk optimization enabled deep learning approach" in 2024. Journal: Electromagnetic Biology and Medicine, 43(4), 337-358. Retrieved from <https://doi.org/10.1080/15368378.2024.2421202>. (Q3, impact factor SJR (2023):0.33).
4. Rout, A.K., et al, Published a paper on "Precision Agricultural Mapping: Enhancing Crop Edge Segmentation Through Satellite-Based Spatial DeepLabV3+" in 2024 Proceedings of International Conference on Recent Innovations in Computing. ICRIC 2023. Lecture Notes in Electrical Engineering, vol 1196. Springer, Singapore. Retrieved from [https://doi.org/10.1007/978-981-97-7862-1\\_26](https://doi.org/10.1007/978-981-97-7862-1_26).

### Patents

1. Dr. Jayasri kotti published a patent titled on "AN ARTIFICIAL INTELLIGENCE (AI) BASED A SYSTEM AND METHOD FOR ENHANCED MORSE CODE TRANSLATION FOR THE HEARING-IMPAIRED USING EYE TRACKING". Application no: 202441046289 A. date of filing: 14/06/2024, publication date: 29/11/2024.
2. B. Padmaja published a patent titled on "AN E-COMMERCE RECOMMENDATION

SYSTEM AND METHOD BASED ON DEEP LEARNING". Application no: .202441047247 A. date of filing: 20/06/2024, publication date: 13/12/2024.

### Workshops

1. Padmavathi Pragada attended an Workshop on " Elevate Your Research with Elsevier: Combining Publishing Strategies with Comprehensive use of Research Planning and Research Execution Methodologies" on 13-11-2024. presented by NITIN GHOSHAL Customer Success Manager.
2. Dr. V. Vasudha Rani, Dr. Ajith Kumar Rout and Dr. Jayasri Kotti attended an Workshop on "16th NEP Orientation & Sensitization Programme Two-week programme through online mode" on 04-13, December 2024 Under the agies of UGC – Malaviya Mission Teacher Training Program.

### PLACEMENT DATA

1. 34 students selected for Infosys with 3.6 LPA.
2. B. Chandu(21341A1218), P. Hiranmayee Panda(21341A12A2) selected in Nisum Technologies 4.0 LPA.
3. Ronald Sudheer(21341A1283), N. Tarun Venkata Sai(21341A1287), M. Usha (21341A1273), V. Vinay (21341A12C3) students selected for Cognizant with 4.0 LPA.