

Department of Information Technology

Sep - Oct
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About GMRIT

Newsletter Issue-5

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. Panapana, P., et al. published a paper on "EGDP based feature extraction and deep convolutional belief network for brain tumor detection using MRI image". Journal: Network: Computation in Neural Systems (2024)., 1-31. Retrieved from DOI: <https://doi.org/10.1080/0954898x.2024.2389248>. (Q3, impact factor SJR(2023):0.55).

Online Courses

1. Lenka Swathi successfully completed online course "Research Methodologies" an online non-credit course authorized by Queen Mary University of London and offered through Coursera.
2. Pooja panapana successfully completed online course "Research Methodologies" an online non-credit course authorized by Queen

Mary University of London and offered through Coursera.

3. Ramya Vaggi successfully completed online course "Research Methodologies" an online non-credit course authorized by Queen Mary University of London and offered through Coursera.

Book Chapters

1. Kotti, J., et al Published a Book Chapter on "Renewable Energy Sources for a Sustainable Worldwide Prospective: Forecasting Future Multi-Sector Sustainable Regulations. In Design Strategies for Efficient and Sustainable Building Facilities" (2024). DOI: 10.4018/979-8-3693-3200-9.ch004. (pp. 75-100). IGI Global.
2. Swathi Lenka et al. published a paper on "Effective Prediction of Coronary Heart Disease Using Hybrid Machine Learning". Conference: Data Engineering and Applications. IDEA 2022. Lecture Notes in Electrical Engineering, vol 1146. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-97-0037-0_12.
3. Mr. Ajith Kumar Rout publish a book chapter on " Identification and Mitigation Process for the Air Quality Using Machine Learning Techniques" Proceedings of 3rd International Conference on Smart Computing and Cyber Security. SMARTCYBER 2023. Lecture Notes in Networks and Systems, vol 914. Springer, Singapore. https://doi.org/10.1007/978-981-97-0573-3_23. Online ISBN978-981-97-0573-3.
4. Mr. Ajith Kumar Rout publish a book chapter on "Book Genre Classification System Through Supervised Learning Technique."Proceedings of 3rd International Conference on Smart Computing and Cyber Security. SMARTCYBER 2023. Lecture Notes in Networks and Systems, vol 914. Springer, Singapore. https://doi.org/10.1007/978-981-97-0573-3_19. Online ISBN978-981-97-0573-3.
5. Jayasri kotti publish a book chapter on "Renewable Energy Sources for a Sustainable Worldwide Prospective: Forecasting Future Multi-Sector Sustainable Regulations." Design Strategies for Efficient and Sustainable Building Facilities, edited by Roberto Alonso González-Lezcano and Sunil Kumar Sansaniwal, IGI Global, 2024, pp. 75-100. <https://doi.org/10.4018/979-8-3693-3200-9.ch004>.

Placement Data

1. Vinay (21341A12C3) selected for PalTech with 6 LPA.
2. V. Narayana Chowdary (21341A1249) selected in DeltaX with 7 LPA.