

Information Technology Department

July-August
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About GMRIT

Newsletter Issue-4

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 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. Rout, A.K. Smart Innovation Systems and Technologies, Book Genre Classification System Using Machine Learning Approach: A Survey (Conference Paper) 5th International Conference on Soft Computing and Signal Processing, ICSCSP 2022; Hyderabad; India; 24 June 2022 through 25 June 2022; Code 297119 Volume 313, 2023, Pages 231-241.
2. Panapana, Pooja., Pothala, E.R., Nagireddy, S.S.L., Mattaparthi, H.P., Meesala, N. Lecture Notes in Networks and Systems Volume 716 LNNS, 2023, Pages 303-312 22nd International Conference on Intelligent Systems Design and Applications, ISDA 2022; Virtual, « Automatic Bidirectional Conversion of Audio and Text: A Review from Past Research (Conference Paper) .

3. Ashutosh Kumar Choudhary. Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023 2023, Pages 1330-1336 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023; Salem; India; 4 May 2023 « Design of an Efficient Multi domain Augmented Data Aggregation Model to Solve Heterogeneity Issues for IoT Deployments (Conference Paper) »
4. Pooja Panapana et al., Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023, Pages 236-246 "A Survey on Machine Learning Techniques to Detect Breast Cancer (Conference Paper)"
5. Rout, A.K, et al., 6th International Conference on Inventive Computation Technologies, ICICT 2023 – Proceedings 2023, Pages 96-101 "Machine Learning Model for Awareness of Diet Recommendation (Conference Paper)".
6. Anilkumar, C., Karrothu, A., 2023 International Conference on Computer Communication and Informatics, ICCCI 2023; Coimbatore; India; "Recognition and Processing of phishing Emails Using NLP: A Survey(Conference Paper).
7. Ashutosh Kumar Choudhary published, "DQANFCT: design of a deep Q-learning network for augmented network forensics via integrated contextual trust operations" International Journal of Information Technology, DOI:10.1007/s41870-023-01298-4.
8. Scopus indexed paper Published by Ashutosh Kumar Choudhary, (2023). Design of an efficient VARMA GRU LSTM based predictive Trust Model for high-performance Blockchain networks. Journal of Integrated Science and Technology, 12(1).
9. Archana Uriti, Surya Prakash Yalla, Chunduru Anilkumar has presented paper in Proceedings of the 3rd International Conference on Signal Processing and Machine Learning DOI: 10.54254/2755-2721/6/20230798.
10. Scopus Index Paper published by Ajit Kumar Rout, Archana Uriti "A Comprehensive Machine Learning Framework for Automated Book Genre Classifier "International information and Engineering Technology Association. DOI: <https://doi.org/10.18280/ria.370323>
11. Mr. M. Hari Krishna, Published paper "optimizing Health: A Personalized Diet Recommendation System Based on Machine Learning" in Scopus indexed journal Eur. Chem. Bull. 2023,12(10), 5853-5868.

Webinars/Faculty Development Programs

1. Dr. V. Vasudha Rani, Dr. Ajith Kumar Rout, Dr. K. Jaya Sri, Dr. P. Srihari, Ms. U. Archana, Mr. M. Harikrishna, Mr. Ashutosh Kumar Chowdary, Mr. Ch. Anil kumar, Ms. B. Padmaja, Mrs. K. Santhoshi, Mrs. P. Padmavathi, Ms. Ch. Bharathi, Ms. P. Pooja, Mr. K. Aravind and Mr. A. Ravikishore has

attended national level 5 –days FDP on “**Cloud Infrastructure**” organized by Department of Information Technology, GMRIT and Brainovision, AICTE and MIE(Ministry of Education) held from 21/08/2023 to 25/08/2023.

Other Events.

1. IT Dept has successfully conducted an event named “**Spardha**” on the eve of “**National Telugu day**”. We have conducted this event for the first time in our college. This event was conducted in both GMRIT as well as GMR.V.DAV Public School.

