

Information Technology Department

Nov -Dec
2022

About GMRIT

Newsletter Issue-6

www.gmrit.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. **Marrapu Hari Krishna** et al. published a paper on "Survey on Personalized Healthy Diet Recommendation System Using Machine Learning" journal : Neuro Quantology | October 2022 | Volume 20 | Issue 13 | Page 916-922 | doi: 10.14704/nq.2022.20.9.NQ88117.
2. **Uriti Archana** et al. Published a paper on "A Survey on Enhancement of digital business using QR" journal : Neuro Quantology | October 2022 | Volume 20 | Issue 13 | Page 930-935 | doi: 10.14704/nq.2022.20.9.NQ88119.
3. Dr.Ajit Kumar Rout, Abhisek Sethy published a paper on "Adaptive MLELM-AE model for efficient prediction of stock market data" journal: Journal of Statistics and Management Systems Taylor & Francis 01-Dec-22.

DOI: 10.1080/09720510.2022.2130567.

4. Yalla, S.P., Uriti Archana., A. Sethy published a paper on "GUI implementation of modified and secure image steganography using least significant bit substitution" journal: International Journal of Safety and Security Engineering.

01-Dec-22. **Page:** 639-643,

DOI: <https://doi.org/10.18280/ijssse.120513>.

5. Ashutosh Kumar Choudhary et al. published a paper on "Survey on Machine Learning Based Intrusion Detection System " journal: NeuroQuantology Dec 2022 | Volume 20 | Issue 19 | Page 644-651 |

doi: 10.48047/nq.2022.20.19. NQ99059.

6. Kancherla Santoshi published a paper on "Automatic Web Based Evaluator of Programming Assignments- A Review " journal : NeuroQuantology | DEC 2022 | Volume 20 | Issue 19 | Page 2384-2390|

doi: 10.48047/nq.2022.20.19.NQ99200.

7. Lenka Swathi published a paper on "Survey on Automatic Drowsiness Detection and Alert System using Deep Learning" journal: SPECIALUSIS UGDYMAS / SPECIAL EDUCATION 2022 1 (43).

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Papers Published in Conferences

1. **Y Surya Prakash** et al. presented a paper on " Digital Signatures and EIGamal Scheme Integration for Secure Data Transmission in

Digital Transaction A Survey" International Conference on Augmented Intelligence and Sustainable Systems(ICAISS-2022)IEEE, CARE College of Engineering, November 24-26 2022, Tiruchy, India.

DOI: [10.1109/ICAISS55157.2022.10010728](https://doi.org/10.1109/ICAISS55157.2022.10010728).

FDP'S

1. **Ms. U Archana** have received certificate of completion for **AWS Academy Graduate – AWS Academy Machine Learning Foundations of 20 Hours on 21.11.2022**.
2. **Mr. Y. Surya** Prakash have participated and completed three days Workshop on "**Cyber Security Attacks and Mitigation Techniques**" organized by KLEAP Institute of Information Security of KLEAP Technologies Pvt Ltd.

Others

1. Mr P Srivastav 3rd Year IT received gold medal for winning the PUNEET SAGAR inter battalion debate competition held at the occasion of NCC day at the 14(A) BN office Srikakulam.
2. Department wise and Company wise Placements - 2022-23 Batch for GMRIT as on 31.12 .2022.
3. ACM-W conducted the Community event Hour of code on 9/12/2022, at Kasturbha

Gandhi School (Guravam Village) and Govt High School (Lingalavalasa).

