

# Information Technology Department

March-April  
2023

About GMRIT

Newsletter Issue-2

[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 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. T. Daniya, "Fuzzy Neighbors and Deep Learning-Assisted Spark Model for Imbalanced Classification of Big Data ", International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol.31, No.1. (<https://doi.org/10.1142/S0218488523500095>)(IF:1.24).
2. T. Daniya, "A Study on Weather based Crop Prediction System using Big Data Analytics and Machine Learning," 2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 2023, pp. 794-800, doi: 10.1109/ICSSIT55814.2023.10060865.
3. Patent Published "A Novel Image Pattern recognition system based on computer vision and

artificial Intelligence and method thereof" by Mr. Chunduru Anil kumar on 31/03/2023.

4. Filling of Copyright Application for "Adaptive Load Balancing Approach for AOMDV Routing in MANET" in the name of GMR Institute of Technology by Ashutosh Kumar Choudhary and Dr. Ajit Kumar Rout.

### Webinars/Faculty Development Programs

1. Ashutosh Choudhary has successfully completed training program on "Mastering Bot 360" from Automation Anywhere.

### Training and Placement

- V VISHNU VARDHAN (3rd IT) has emerged victorious by winning the "Business Capital (Tenders)" event at NIPUNA 2023 by SRKR Engineering College, Bhimavaram. His exceptional skills and knowledge in the field of business have helped him secure this win. He is expected to continue this success in his future endeavors, and his achievements will undoubtedly inspire others.
- P SREEVATSAV (3rd IT) has been declared the winner of the "Uniquis" event at NIPUNA 2023 by SRKR Engineering College, Bhimavaram. His hard work, perseverance, and dedication have finally paid off, and he has emerged victorious. He is advised to maintain his focus and dedication to achieving greater success in the future.
- P SREEVATSAV (3rd IT) has won the "Wordsphere" event at NIPUNA 2023 by SRKR

Engineering College, Bhimavaram, showcasing his remarkable creativity and excellent communication skills. His win is a reflection of his hard work, perseverance, and exceptional abilities. He is wished all the best for his future pursuits, and his accomplishments are sure to inspire others.

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- VV RAMARAJU (3rd IT) & KVL PRASANNA (2nd IT) have secured the runners-up position in the "Business Capital (Stocks)" event at NIPUNA 2023 by SRKR Engineering College, Bhimavaram. Their hard work, determination, and teamwork have been rewarded with this achievement. They are encouraged to continue their pursuit of success and make more significant contributions in the future.



- PRAKASH (2nd CIV), CH SURYA (2nd IT), SOWMYA (2nd CIV), KVL PRASANNA (2nd IT) have been declared runners-up in the "Presencia - Civil" event at NIPUNA 2023 by SRKR Engineering College, Bhimavaram. Their dedication, commitment, and teamwork have earned them this accolade, and they are congratulated on their success.