About the Institutes

GMRITDU: Established in 1997, GMR Institute of Technology has grown steadily with a strong focus on academic excellence and ethical values, earning wide recognition for its quality education and consistent performance. In January 2026, it was notified as a Deemed to be University under Section 3 of the UGC Act, 1956, by the Ministry of Education, Government of India. GMRITDU provides its learning community state-of-the-art facilities, infrastructure, and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real-world experiences. All UG programs are accredited by NBA under Tier-1 complying with Washington Accord and the institute is accredited by NAAC with 'A' grade for the three consecutive cycles. In the NIRF-ranking GMRIT was placed in the band of 201-300 for the years 2024 and 2025.

CITD-MSME: Central Institute of Tool Design (CITD) established in 1968 by the Govt. of India with the assistance of UNDP and ILO, is a pioneering Institution in the field of Tool Engineering in the Country. The Institute was initially established as a United Nations Development Programme (UNDP) Project and was executed by International Labour Organisation (ILO). CITD is committed to providing world-class training and skill development in the fields of tool design, manufacturing technologies, and advanced engineering. By nurturing a skilled and industry-ready workforce, CITD aims to bridge the gap between academia and industry, supporting sectors like aerospace, defence, automotive, electronics, and MSMEs. It offers state-of-the-art design and development support, and AI-driven design solutions to drive national initiatives like Atmanirbhar Bharat and Make in India.

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GMR Institute of Technology (GMRIT) Deemed to be University

Conducting One-Week Offline Management Development Program in Collaboration with CITD – MSME

Titled

Modern Data Analytics and Visualization using Python Libraries

23rd to 27th February 2026

Organized by
Department of Information Technology
&
Department of CSE-AI&DS

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About the Departments

Department of Information Technology at GMRITDU was established in 1999. The curriculum delves into the multifaceted applications of information technology, equipping students with the expertise to manage IT resources effectively. A key focus of the department lies in the practical application of IT principles across diverse information and administrative systems. With an annual intake of 120 students, the program ensures a close-knit learning environment that cultivates a thorough understanding of the theoretical and practical aspects of IT. This in-depth exposure prepares graduates for successful careers in various IT domains, including software development, system administration, and network engineering. The department has a highly competent faculty with over 100 Scopus and SCI-indexed publications, specializing in AI-driven healthcare, Natural Language Processing, and predictive analytics.

The Department of CSE–Artificial Intelligence & Data Science (CSE-AI&DS) was established in 2021 with a vision to nurture future-ready professionals in emerging digital technologies. The program is specially designed to focus on AI algorithms, Machine Learning techniques, Data Analytics, and Big Data Technologies, equipping students with strong theoretical foundations and practical skills. It prepares graduates to meet the growing demands of data-driven industries and research organizations. The department is supported by well-developed infrastructure, modern computing facilities, and dedicated laboratories that enable hands-on learning and experimentation. The faculty members possess rich teaching and research experience, actively guiding students in academic projects, internships and innovative research initiatives.

About the MDP

The MDP on Modern Data Analytics and Visualization using Python Libraries is structured to equip participants with essential knowledge and hands-on expertise in data science and advanced analytics. The program begins with foundational concepts of data, data types, analytics approaches, and business intelligence. Participants will develop practical skills in data cleaning, transformation, and visualization using Python libraries such as NumPy and Pandas, along with SQL for efficient data management and database integration. The curriculum further explores modern data storage systems, NoSQL, and cloud fundamentals to address contemporary data challenges. Advanced sessions introduce Machine Learning concepts, including hands-on model development using Scikit-Learn. The program emphasizes real-world applications through advanced visualization techniques, dashboard design, and industry-focused case studies. It concludes with a capstone project that enables participants to implement an end-to-end data analytics and machine learning solution, fostering strong analytical thinking and data-driven decision-making skills.

Objectives

- To understand core concepts of data science and analytics.
- To perform data analysis and visualization using Python and SQL.
- To learn data storage, NoSQL, and cloud fundamentals.
- To apply Machine Learning techniques.
- To implement end-to-end data analytics projects.

Topics Covered

- Foundations of Data Science, data types, analytics concepts, and business intelligence overview.
- Data cleaning, transformation, and visualization using Python libraries such as NumPy and Pandas.
- Data storage systems, SQL fundamentals, NoSQL concepts, and Python–database integration.
- Machine Learning concepts, and hands-on model development using Scikit-Learn.
- Visualization, dashboard design, industry applications, and a capstone project on end-to-end data analytics and ML implementation.

Contact Persons

Dr. P. Kanchanamala	**: 7893541017**
Dr. M. Satish	**: 9491154391**

Eligibility

All interested Faculty, Research Scholars, PG Students, and Industry Personnel.

Registration Details

Registration fee for the Management Development Program is Nil.

Registration Link

https://forms.gle/Q9jWuZ3vfntcicny8

Certificate

Certificate will be awarded only to participants who attend all days of the Management Development Programme.