

About the Institutes

GMRIT-Rajam: GMR Institute of Technology (GMRIT) was established in the year 1997 by GMR Varalakshmi Foundation – the corporate social responsibility arm of GMR Group. GMRIT offers aspiring engineers' high-quality technical education. It is currently placed among the top 50 colleges in the country and among the top 5 colleges in the state of Andhra Pradesh. GMRIT provides its learning community with 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. It offers eight UG and five PG programs. All B. Tech programs are accredited by NBA under Tier-1, complying with Washington Accord and the college is accredited as an 'A' grade institution by NAAC for the three consecutive cycles. In the NIRF ranking, GMRIT was placed in the band of 201-300 for the year 2024.

VIT-Pune: Vishwakarma Institute of Technology, Pune, a highly commendable self-financed autonomous institute, occupies a place of pride amongst the premier technical institutes of the western region of India. Established in the year 1983, financed and run by the Bansilal Ramnath Agarwal Charitable Trust, Pune. The Institute is running 12 undergraduate and 5 Ph.D. Programmes which are affiliated with the Savitribai Phule Pune University. The Institution is ISO 21001:2018 (EOMS) certified by Quality Austria Central Asia, India. The Institute is autonomous since the academic year 2008-09 and is empowered with autonomous institute status by the government of Maharashtra. The institute is accredited by NAAC with A++ grade, and all eligible programs are accredited by the National Board of Accreditation (NBA), and the institute is ranked in NIRF.

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Resource Persons

Prof. Vasudeva Rao Allu, Professor, Department of Mathematics, School of Basic Sciences, Indian Institute of Technology (IIT), Bhubaneswar, Odisha.

Topic: *Application of Mobious Transformation in Data Science*

Prof. Vishwesh Jatala, Assistant Professor, Department of Computer Science & Engineering, Indian Institute of Technology (IIT), Bhilai.

Topic: *HPC Technologies for Artificial intelligence & Machine Learning*

Prof. Gopal Krishna Panda, Professor, Department of Mathematics, National Institute of Technology-Rourkela, Sundargarh, Odisha.

Topic: *Application of modular arithmetic in data security*

Prof. Tirupathi Rao Padi, Professor, Department of Statistics, Dean, Ramanujan School of Mathematical Sciences, Pondicherry University (A Central University).

Topic: *Statistics as Data Science*

Prof. Chittaranjan Hota, Senior Professor, Department of Computer Science and Information Systems, Birla Institute of Technology & Science, Pilani, Hyderabad, Telangana.

Topic: *From Data to Decisions: Applications of Smart Computing*



GMR Institute of Technology

Conducting One-Week Online Faculty Development Program in Collaboration with

Vishwakarma Institute of Technology, Pune

Titled

The Role of Data Science in Computational Mathematics & Statistics

05th to 09th May 2025

Organized by

Mathematics Division

Department of Basic Science & Humanities

&

Department of Computer Engineering



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<https://www.vit.edu/>

About the Departments

The Mathematics Division of GMRIT, Rajam is striving hard to become recognised for excellence among academic institutions in Andhra Pradesh and the surrounding states of India. The mathematics group pursues excellence for its future scientists and engineers through emphasis on thought processes and with the help of research-oriented faculty members. The faculty members are highly experienced in bringing advanced science to their lectures and practical lab classes. The faculty members have published high-quality research publications and received research grants from government organisations. We are committed to build a strong national and international collaboration.

The Computer Engineering Department of VIT, Pune is one of the leading departments established in 1991. The department has an annual intake of 720. We have experienced faculty with a strong academic background of academics, industry exposure, and research and consultancy activities. The faculty has published their research in reputed journals/conferences indexed with SCI and Scopus. The faculty members received various funding from the Government/private organisations, and international agencies. The department is in active collaboration with many industries like Nvidia, IBM, Accion Labs, Blockon, Silicon Stack, GitHub, etc. and foreign Universities. The department has well-established laboratories with high-end equipment and the latest software. The NBA has accredited the department in a continuous cycle from 2003 to the present.

About the FDP

The Faculty Development Program (FDP) on “The Role of Data Science in Computational Mathematics & Statistics” aims to empower educators and researchers with contemporary knowledge and practical skills at the intersection of data science, mathematics, and statistics. The program will focus on bridging traditional analytical methods with modern computational techniques, fostering interdisciplinary research, and promoting innovative teaching practices. Participants will gain hands-on experience with powerful tools and explore real-world applications, preparing them to drive academic excellence and research advancements in their institutions.

Objectives

- To enhance faculty expertise in applying data science to computational mathematics and statistics.
- To bridge traditional mathematical methods with modern data-driven techniques.
- To develop hands-on skills in tools like Python, R, and MATLAB for data analysis and modelling.
- To foster academic collaboration, critical thinking, and innovative research approaches.

Topics Covered

- Data Science and its role in modern mathematical research.
- Machine Learning techniques for statistical modelling and prediction.
- Numerical methods and optimization using Python, R and MATLAB.
- Big Data analytics in computational mathematics

Contact Persons

Dr. R.L. Naidu	: 9866386513
Dr. Surya Narayan Dash	: 7032127525

Eligibility

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

Registration Details

Faculty, Research Scholars, PG Students	: Rs. 300/-
Industry Participants	: Rs. 500/-

Bank Account Details for Payment

Account	:	Indian society of Technical Education GMRIT Chapter
Bank Name	:	Union Bank of India



(Please upload payment receipt copy along with the UTR number while doing registration)

Registration Link

<https://forms.gle/p9p5fC2FpM8F1j3KA>

Certificate

The link for the different sessions will be emailed to the registered participants. The certificate will be issued for those participants who have attended the program with minimum 80% attendance.