

About the Universities

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 sponsored by GMRIT Foundation (section 8 Company) under Section 3 of the UGC Act, 1956, by the Ministry of Education, Govt. 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 and the institute is accredited by NAAC with 'A' grade. GMRIT University has gained international recognition through its inclusion in THE World University Rankings and THE Impact Rankings across several Sustainable Development Goals (SDGs).

SAHE: Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC), founded in 1977, was the first private engineering college in united Andhra Pradesh. Offering B.Tech., MTech., MBA, and MCA programs, VRSEC maintains quality standards with NBA accreditation in five cycles since 1998 and adopted OBE in 2013. The institute received NAAC 'A+' grade in 2021 and ISO certification. VRSEC gained autonomous status in 2006, extended to 2028. Recognized among India's top engineering institutions, the college has ranked within top 200 in NIRF rankings for seven years. In 2024, VR Siddhartha Engineering College transformed into 'Siddhartha Academy of Higher Education, a deemed-to-be university under UGC Act by Ministry of Education. Siddhartha Academy of Higher Education offers programs through schools of Engineering, Management, Law, Science, and Arts & Commerce, providing various UG & PG degrees.

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Dr. P. Venkateswara Rao,
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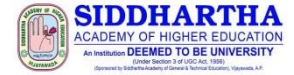
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Topic: The Bio-Intelligence Convergence: Algorithms, Deep Learning, and the Future of Nature-Inspired Computing.

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Topic: Statistical Thinking for Data Science: A Systems Approach

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Topic: Machine Learning-Based Analysis of Cosmological Models Using Observational Data



GMRIT Deemed to be University

**Conducting 5-day Online
Faculty Development Program in
Collaboration with
Siddhartha Academy of Higher Education
(Deemed to be University)
On**

Mathematics for Data Science and Machine Learning: Theory to Implementation

2nd to 6th November 2026

**Organized by
Departments of Mathematics**



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About the Departments

Departments of Mathematics, School of Physical Sciences, GMRITDU: The Department of Mathematics, School of Physical Sciences, GMRIT Deemed to be University, is committed to excellence in teaching, research and academic innovation. It provides a strong mathematical foundation for students across engineering, science and interdisciplinary programmes. The Department comprises highly qualified and experienced faculty actively engaged in research across diverse mathematical disciplines, with quality publications in reputed national and international journals and participation in government-funded research projects. As part of GMRIT Deemed to be University, the Department is strengthening its academic and research ecosystem through enhanced national and international collaborations with leading institutions and researchers. Through quality education, impactful research and collaborative initiatives, the Department strives to advance mathematical sciences and promote their meaningful applications in academia, industry and society.

Department of Mathematics, SAHE: The Department of Mathematics was established in 1977 with the vision of providing a strong mathematical foundation for engineering education while promoting excellence in science and technology. Over the years, it has evolved to meet emerging developments in mathematics and its interdisciplinary applications. The Department is supported by experienced and dedicated faculty who offer undergraduate, postgraduate, and Ph.D. programmes, along with laboratory-oriented courses such as MATLAB and R Programming. Faculty members actively contribute to research through quality publications in reputed national and international journals and conference proceedings. The Department also organizes seminars, workshops, guest lectures, faculty development programmes, and outreach activities to foster academic excellence, research innovation, professional development, and meaningful societal impact.

About the FDP

The Faculty Development Program (FDP) "Mathematics for Data Science and Machine Learning: Theory to Implementation" provides a comprehensive platform for exploring the mathematical and statistical foundations of Data Science, Machine Learning, and Artificial Intelligence. The program integrates theoretical concepts with practical implementation, helping participants gain a deeper understanding of the principles, algorithms, and methodologies that power intelligent data-driven systems. It enables faculty members to appreciate not only how machine learning techniques are applied in practice but also the mathematical reasoning behind their success.

Objectives

- Strengthen understanding of fundamental mathematical concepts
- Connect mathematical theory with machine learning algorithms.
- Enhance real-world problem-solving and analytical skills.
- Familiarize faculty with advanced mathematical methods and tools.
- Integrate mathematical foundations into machine learning education.

Topics Covered

- Mathematical Foundations for Data Science and Machine Learning
- Statistical Methods and Probability for Intelligent Systems
- Linear Algebra and Optimization in Machine Learning
- Deep Learning and Nature-Inspired Computational Algorithms
- Hands-on Machine Learning: From Mathematical Theory to Real-World Implementation

Contact Persons

Dr. K. Ravi Babu	: 94408 72463
Dr. N. Srinivasa Rao	: 8328232455

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
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Bank Name	:	Union Bank of India
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(Please upload payment receipt copy along with the UTR number while doing registration)

Registration Link

<https://tinyurl.com/GMRITDU-Mathematics-FDP>

