

CHIEF PATRON

SAMPOOJYA SWAMI VINAYAMRITANANDA PURI
Administrative Director
Amrita Vishwa Vidyapeetham, Chennai

PATRONS

Dr. SASANGAN RAMANATHAN
Dean, School of Engineering
Amrita Vishwa Vidyapeetham

Shri. I B MANIKANTAN
Campus Director
Amrita Vishwa Vidyapeetham, Chennai

Dr. V JAYAKUMAR
Principal
Amrita Vishwa Vidyapeetham, Chennai

CONVENERS

Dr. K ANITHA
Associate Professor & Chairperson
Department of Mathematics
Amrita Vishwa Vidyapeetham, Chennai

Dr. SOUMYENDRA SINGH
Assistant Professor
Department of Mathematics
Amrita Vishwa Vidyapeetham, Chennai

PROGRAM COMMITTEE

Dr. P SELVARAJ	Dr. S MOHANAPRIYA
Dr. S SWEETHA	Dr. B KRITHIKA
Dr. K MUTHUSELVAN	Mr. T SRIDHAR

HOW TO REGISTER

Participants can sign up & register for the program through the AICTE ATAL Portal: <https://atalacademy.aicte-india.org/>

NO REGISTRATION FEE

SCAN TO REGISTER



RESOURCE PERSON

Dr. C Ponnuraja
Scientist-F & Head, Department of Statistics
ICMR-NIRT-Chennai, Govt. of India

Dr. Sudheesh Kumar Kattumannil
Associate Professor, Applied Statistics Unit
Indian Statistical Institute, Chennai

Dr. Lalit Singh
Senior Scientist
Head, Artificial Intelligence Applications
NPCIL-BARC
Department of Atomic Energy, Govt. of India

Dr. M Subramani
Assistant Professor
Department of Mathematics
IIITD-Kanchipuram

Dr. S Baghavathi Priya
Associate Professor & Chairperson
Amrita School of Computing
Amrita Vishwa Vidyapeetham, Chennai

Dr. Raju K George
Outstanding Professor, Department of Mathematics
Dean (Student Activities, Student Welfare and Outreach)
Indian Institute of Space Science and Technology (IIST)
Department of Space, Thiruvananthapuram
Govt. of India

Dr. T S L Radhika
Associate Professor
Department of Mathematics
BITS – Pilani, Hyderabad Campus

Mr. Ganeshram Rajagopal
Senior Technical Manager
HCL Tech-Chennai

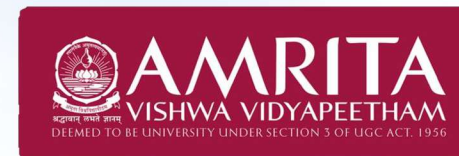
IMPORTANT DATES

Last Date for receipt for applications : 13.08.2026

Confirmation of the Participants : 14.08.2026

ADDRESS FOR CORRESPONDENCE

Dr. Soumyendra Singh
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**CHENNAI
CAMPUS**

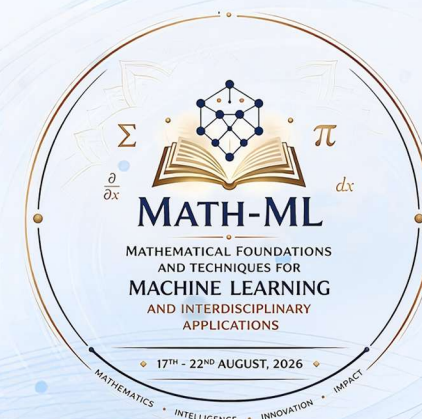


AICTE TRAINING AND LEARNING (ATAL)

Sponsored
**SIX DAYS FACULTY DEVELOPMENT PROGRAMME
(OFFLINE)**

**MATH-ML: Mathematical Foundations and
Techniques for Machine Learning and
Interdisciplinary Applications**

17-22 AUGUST 2026



DEPARTMENT OF SCIENCE & HUMANITIES (MATHEMATICS)

Amrita Vishwa Vidyapeetham
337/1 A, Vallal RCK Nagar, SH 50A
Vengal, Tamil Nadu 601103

www.amrita.edu



ABOUT AMRITA VISHWA VIDYAPEETHAM

Amrita Vishwa Vidyapeetham is a multi-disciplinary research-intensive private university with a student strength of over 31,000 supported by more than 2,150 faculty members

Accredited with the highest 'A++' grade by NAAC Amrita offers more than 300 undergraduate, postgraduate and doctoral programs spanning diverse fields including Engineering, Management, Medical Sciences, Ayurveda, Life Sciences, Physical and Agricultural Sciences, Law, Arts & Humanities and Social & Behavioral Sciences. With a network of ten campuses located in Amaravati, Amritapuri, Bengaluru, Chennai, Coimbatore, Kochi, Mysuru, Nagercoil, NCR Delhi (Faridabad) and Haridwar Amrita Vishwa Vidyapeetham stands among India's leading private universities

Spanning over 1,200 acres with more than 10 million square feet of built-up area the university is distinguished for its commitment to academic excellence and consistently ranks among the top private institutions in the country reinforcing its reputation as a premier center for quality education. Amrita Vishwa Vidyapeetham has been ranked 8th in the National Institutional Ranking Framework (NIRF) 2025 with the Amrita School of Medicine, Kochi securing the 9th position in the Medicine category. In the Times Higher Education (THE) Sustainability Impact Ratings 2026 which evaluate universities worldwide for their contributions to social and economic sustainability Amrita has been ranked 37th globally

The university is recognized as one of the fastest-growing institutions of higher learning in India having established over 180 collaborations with top 500 world-ranked universities within just 18 years. Amrita's vision and progress are inspired by its founding Chancellor Sri Mata Amritanandamayi Devi (Aamma) a world-renowned humanitarian leader

ABOUT AMRITA SCHOOL OF ENGINEERING, CHENNAI

Amrita School of Engineering (ASE), Chennai is located at about 40 km away from Chennai and 90 km away from Tirupati on the State Highway SH50A in a village named Vengal has become the place where the future of the country is being moulded

ASE is aesthetically spread out on a sprawling 13.55 acres of land with a built-up area of 24,956 sqm where the dreams of countless engineering aspirants find realisation. ASE located in close proximity to the country's major Manufacturing and Automobile Hubs (popularly known as The Detroit of Asia) embodies an intellectual ambience to the aspiring young minds who wish to pursue for engineering as their career specialization

ABOUT DEPARTMENT OF SCIENCE AND HUMANITIES

Department of Science & Humanities at Amrita Vishwa Vidyapeetham, Chennai Campus forms the academic backbone of all engineering and research programmes. Serving as the foundation for B.Tech, M.Tech and PhD programmes. The department plays a pivotal role in shaping students cognitive & analytical thinking, scientific understanding and communication skills from the very beginning of their academic journey

The department comprises four key divisions:

- Division of Mathematics
- Foreign and English Language Centre
- Division of Chemistry
- Division of Physics

Each division contributes to a multidisciplinary learning environment that seamlessly integrates fundamental sciences with emerging technological domains

A distinctive strength of the department lies in its forward-looking approach particularly in the areas of Mathematics for Computing and Mathematics for Intelligent Systems. These domains are highly relevant to modern technological fields including Linear Algebra, Artificial Intelligence, Machine Learning, Data Science, Cyber Security and Computational Engineering. Courses covering Discrete Mathematics, Graph Theory, Probability and Statistics, Optimization Techniques, Numerical Methods and Data Modeling equip students with the tools required to model, analyze and solve complex real-world problems. This integration ensures that foundational sciences are not taught in isolation but as enablers of innovation across engineering disciplines. The Department of Science & Humanities serves as a vital bridge between foundational sciences and specialized engineering disciplines. Equipping students with strong fundamentals, analytical capabilities, and communication skills, it enables them to excel in advanced areas such as Artificial Intelligence, Robotics, Smart Infrastructure, and Data Analytics, as well as in domains including Advanced Manufacturing, Materials Engineering, Embedded Systems, VLSI Design, Signal Processing, Cyber Security, and Next-Generation Communication Technologies



CHENNAI
CAMPUS



ABOUT THE PROGRAMME OBJECTIVES

- 1.To provide a strong foundation in Mathematical concepts underlying Machine Learning, including Linear Algebra, Discrete Mathematics Probability, Statistics and Optimization
- 2.To bridge the gap between theoretical mathematics and practical Machine Learning applications in real-world scenarios
- 3.To introduce participants to core Machine Learning algorithms and their mathematical formulations
- 4.To explore interdisciplinary applications of Machine Learning in domains such as healthcare, engineering and Data Science
- 5.To develop participants ability to analyze, model and solve real-world problems using mathematical and computational techniques
- 6.To encourage research, innovation and collaboration in emerging areas of Artificial Intelligence, Data Science and Mathematical Modeling

OUTCOMES

- 1.Gain a comprehensive understanding of the mathematical foundations of Machine Learning and appreciate their significance in developing intelligent systems
- 2.Apply concepts from Linear Algebra, Probability, and Optimization to design and analyze Machine Learning models
- 3.Develop practical skills to implement fundamental Machine Learning algorithms using computational tools and programming platforms
- 4.Analyze and solve real-world interdisciplinary problems through data-driven Machine Learning approaches
- 5.Strengthen the ability to interpret contemporary research, evaluate emerging trends, and identify future directions in Artificial Intelligence and Machine Learning
- 6.Build the confidence and motivation to undertake research, publish scholarly articles, and integrate Machine Learning concepts into teaching, research, and professional applications

WHO CAN ATTEND

Faculty members from Mathematics, Computer Science, Artificial Intelligence, Data Science and related disciplines

Research scholars (Ph.D./PG) working in Machine Learning, Data Science and Mathematical Modeling

Industry professionals interested in Artificial Intelligence, Machine Learning and interdisciplinary applications

Participants from AICTE-approved institutions and universities with an interest in advanced computing and Machine Learning

The programme encourages participation from both academia and industry to promote collaborative learning