ABOUT THE INSTITUTE

Vellore Institute of Technology (VIT) was founded in 1984 by Chancellor Dr. G. Viswanathan as Vellore Engineering College. Students from all around India and more than 60 countries come to VIT because of its stellar academic reputation. The Ministry of Human Resource Development (MHRD), Government of India, awarded the institution university status in 2001 in appreciation of its accomplishments in research, academics, and extracurricular activities. VIT has multiple campuses in India, including Vellore, Chennai (Tamil Nadu), Amravati (AP), Bhopal (MP) and Bengaluru (Karnataka), and an international campus in Mauritius. National Institutional Ranking Framework (NIRF) ranked VIT at 21st in the Overall category, 14th in the Research category, 16th in Engineering, and 14th in the University category in 2025, as announced by the Ministry of Education, Government of India. The institution adheres to world-class academic standards and is accredited by NAAC (India), IET (UK), and ABET (USA). VIT is ranked 691 among the top universities worldwide by the QS World University Rankings in 2026, ranked 352nd worldwide and 7th in India by the QS World University Rankings: Sustainability 2026, placed 9th in Engineering and Technology in India by the QS World University Rankings by subject 2025, and is among top 600 universities in world by the Shanghai ARWU Ranking 2025.

VIT offers a dynamic academic environment enriched by strong industry engagement, research culture, and initiatives such as Hack-a-thon, Make-a-thon, Math-a-thon, and Stat-a-thon, fostering problem-solving skills and experiential learning.

ABOUT THE SCHOOL

The School of Advanced Sciences (SAS) houses the Departments of Mathematics, Physics, and Chemistry, with 281 faculty members dedicated to high-quality teaching and research. The school offers 2-year M.Sc. programs in Chemistry, Physics, Data Science, and Business Statistics, and 5-year Integrated M.Sc. programs in Mathematics, Physics, Chemistry, and Computational Statistics & Data Analytics.

All departments are supported by DST-FIST, enabling advanced laboratory and research facilities. SAS hosts 1174 Ph.D. scholars, and faculty members hold several national and international research grants from agencies such as NBHM, CSIR, UGC, DRDO, and DST.

ABOUT THE DEPARTMENT

The Department of Mathematics at VIT holds a strong academic standing, with the QS Subject Ranking 2025 placing Mathematics in the 201–250 global band. The department recently secured DST-FIST support to boost research infrastructure.

Faculty research covers algebra, analysis, differential equations, applied mathematics, optimization, statistics, data science, computational sciences, and theoretical physics. The department offers Ph.D. programmes in Mathematics, Statistics, and Data Science, along with M.Sc. (Data Science), M.Sc. (Business Statistics), Integrated M.Sc. (Computational Statistics & Data Analytics), and Integrated M.Sc. (Mathematics).

VIT's Data Science & AI discipline also ranks (QS Subject Ranking 2025) in the 51–100 global band, marking one of the institute's strongest subject-level achievements.

VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

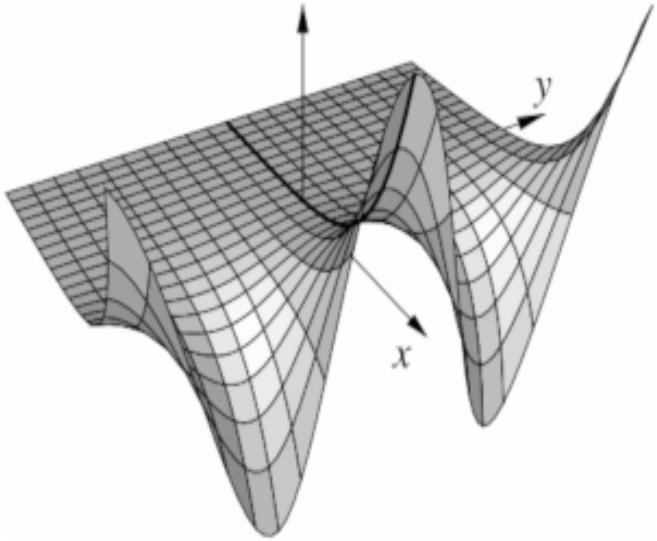
VALUE ADDED COURSE

ON

VAC2505 FUNDAMENTALS OF MATHEMATICAL ANALYSIS (ONLINE MODE)

ORGANIZED BY

DEPARTMENT OF MATHEMATICS,
SCHOOL OF ADVANCED SCIENCES,
VIT VELLORE



Date: 26th Feb – 14th Mar 2026

ABOUT THE VALUE-ADDED COURSE

This course aims to develop and strengthen students' mathematical intuition and problem-solving abilities by an exploration of core concepts and logical foundations of mathematical analysis. Students will be trained to think like a mathematician – viz., question assumptions, construct valid arguments and appreciate the beauty of mathematical structure. Real-world interpretations and illustrative examples will be used to aid understanding. By the end of the course, the students will gain confidence in handling abstract concepts, creating and understanding proofs and applying analytical techniques across varied mathematical areas.

VAC CONTENTS

- Countable and uncountable sets
- Metric spaces
- Compactness
- Limits of Sequences
- Convergence of Series
- Introduction to Complex Numbers

COURSE OUTCOMES

- Describe the fundamental properties of real numbers that underpin the formal development of real analysis.
- Demonstrate an understanding of the theory of sequences and series.
- Demonstrate skills in constructing rigorous mathematical arguments.
- Apply the theory in the course to solve a variety of problems that have appeared in CSIR UGC NET as well as NBHM PhD fellowship examinations.

ORGANIZING COMMITTEE

Honorable Patron

Dr. G. Viswanathan, Founder & Chancellor

Chief Patrons

Mr. Sankar Viswanathan, Vice President
Dr. Sekar Viswanathan, Vice President
Dr. G.V. Selvam, Vice President
Dr. Sandhya Pentareddy, Executive Director
Ms. Kadhambari S. Viswanathan,
Assistant Vice President

Patrons

Dr. V. S. Kanchana Bhaaskaran
Vice Chancellor
Dr. Partha Sharathi Mallick,
Pro-Vice Chancellor
Dr. T. Jayabarathi, Registrar

Chairman

Dr. K. Karthikeyan, Dean, School of Advanced Sciences
Dr. Khadar Babu SK, HoD, Department of Mathematics

Coordinators:

Dr. Priya Das, Department of Mathematics, SAS
Dr. Gouranga Mallik, Department of Mathematics, SAS
Dr. Gayatri S. Panicker, Department of Mathematics, SAS

WHO CAN APPLY?

The course is open to all undergraduates, postgraduates, and research scholars.

COURSE FEE

Registration Fee: Rs.200/- (including GST)
E-certificates, course material, and tutorial sheets will be provided.

ONLINE REGISTRATION & PAYMENT LINK

Link: https://events.vit.ac.in/

or

Scan the QR code

LAST DATE FOR REGISTRATION:
26 February 2026

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email:gouranga.mallik@vit.ac.in
Dr. Gayatri S. Panicker
Ph: 9678554816
email: gayatri.panicker@vit.ac.in

LIST OF SPEAKERS

- Prof. Yury Stepanyants, University of Southern Queensland (PhD from the Institute of Applied Physics, Nizhny Novgorod, Russia)
- Dr. Balaji S., Vellore Institute of Technology, Vellore (PhD from National Institute of Technology Karnataka, India)
- Dr. Ankush Chanda, Vellore Institute of Technology, Vellore (PhD from National Institute of Technology Durgapur, India)
- Dr. Gouranga Mallik, Vellore Institute of Technology, Vellore (PhD from Indian Institute of Technology Bombay, India)
- Dr. Priya Das, Vellore Institute of Technology, Vellore (PhD from Indian Institute of Science Education and Research Kolkata, India)
- Dr. Gayatri S. Panicker, Vellore Institute of Technology, Vellore (PhD from Indian Institute of Technology Guwahati, India)

Important Dates and timing are the following:

Important Dates	Timing
26.02.2026	(9:15am-1:00pm)
27.02.2026-28-02.2026	(9:30am-12:45pm), (3:30pm-5:00pm)
02.03.2026	(9:30am-12:45pm), (3:30pm-5:00pm)
12.03.2026	(10:00am-11:30am), (3:30pm-5:00pm)
13.03.2026-14.03.2026	(9:30am-12:45pm), (3:30pm-5:00pm)