WHO CAN ATTEND?

Registration is open to PG students, research scholars, faculty members, and industry professionals.

REGISTRATION FEE

Registration fee other than Vel Tech – Rs.500/-

REGISTRATION LINK

https://forms.gle/ucBvrJTiD8y1rX4g9

ACCOUNT DETAILS

Name: Vel Tech Rangarajan
        Dr. Sagunthala R&D Institute of Science
        and Technology Trust
Account Number: 753304000 00013
Bank: Bank of Baroda
Branch: Vel Tech
IFSC Code: BARB0VJVELT *(Fifth Character is "Zero")*

SELECTION PROCESS

Participants are limited to a maximum of 40 on first-come-first-serve basis and selected participants will be intimated through email.

Important Date
Registration last date: **07.11.2025**
Registration Confirmation : **08.11.2025**

CONTACT DETAILS

Dr. Gunasekar T
Professor, Dept. of Mathematics
9543343390, gunasekar.t@veltech.edu.in

Dr. J. Naresh Kumar
Professor, Dept. of Mathematics
98948 09569, jnareshkumar@veltech.edu.in

Dr. Mayavel. P
Asst., Prof., Dept. of Mathematics
90920 98984

CERTIFICATES

Certificates will be issued based on attendance.

ORGANIZING COMMITTEE
CHIEF PATRONS

Col. Prof. Dr. Vel R. Rangarajan
Founder President & Chancellor

Dr. Sagunthala Rangarajan
Foundress President

Mrs. Rangarajan Mahalakshmi Kishore
Chairperson and Managing Trustee

PATRON
Prof. Dr. Rajat Gupta
Vice Chancellor

CO-PATRON
Prof. Dr. E. Kannan
Registrar

ADVISOR
Prof. Dr. Raju Shanmugam
Dean Academics

CONVENERS

Prof. Dr. P. Suresh
Dean -International Relations & HRDC

Dr. M. S. Murali Dhar
Dean – FME

ORGANIZING SECRETARIES

Dr. Viswanath. J, *Prof & Head, Dept. of Mathematics*

Dr. Gunasekar T, *Professor, Dept. of Mathematics*

Dr. J. Naresh Kumar, *Professor, Dept. of Mathematics*

ORGANIZING COMMITTEE

Dr. Saravanakumar G, *Asso. Prof., Dept. of Mathematics*
Dr. R. Navaneetha Krishnan, *Asso. Prof., Dept. of Mathematics*
Dr. Stalin T, *Asso. Prof., Dept. of Mathematics*
Dr. Mayavel. P, *Asst. Prof., Dept. of Mathematics*
Dr. S. Gopinath, *Asst. Prof., Dept. of Mathematics*
Dr. Padmavathy . E, *Asst. Prof., Dept. of Mathematics*

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

NAAC A++

Recognised as CATEGORY-1 DEEMED TO BE UNIVERSITY by the UGC University Grants Commission

Human Resource Development Centre

&

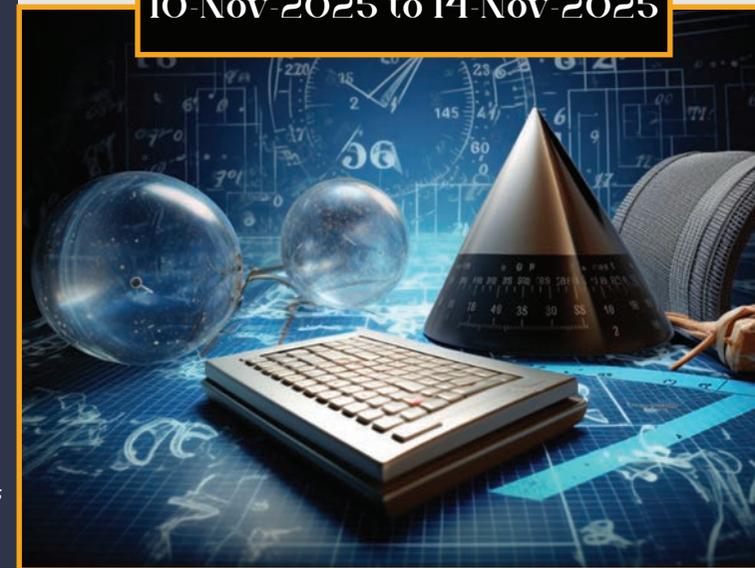School of Science and Humanities

Department of Mathematics

Jointly Organizing

One Week Capacity Building Program

on

"Contemporary Mathematics for Data-Driven Applications"

10-Nov-2025 to 14-Nov-2025

ABOUT THE INSTITUTION

Vel Tech is well-known for its renowned educational practices, which have been recognized and endowed with several awards. The founders of the institution, Col. Prof. Vel. Dr. R. Rangarajan Chancellor & Founder President and Dr. Sagunthala Rangarajan Foundress President believe in education for all despite their financial means, which will promote and uplift society. In accordance with their vision, the Vel Tech Mahatma Gandhi Scholarship Scheme was started and has supported students since its inception. Since 2009, Vel Tech has bestowed 9500 scholarships worth ₹32 crore. We are passionate. Doers in Innovative Engineering Education Global Alliances of Vel Tech has worked on international relations with more than 600 institutions across 50+ countries and has entered into a Memorandum of Understanding (MoU) with 180+ institutions for various academic and research exchange activities. Students, faculty members, and researchers get a collaborative platform for academic projects, explore leading best practices, and collaborate on research projects with international universities. Vel Tech believes that there are no boundaries in the pursuit of knowledge. Through these strategic alliances with international universities, the standard of education at Vel Tech would be on par with the best in the world.

ABOUT THE HRDC

Vel Tech is known for its highest credentials in Teaching, and Extension activities. Knowledge improvement towards recent trends to improve "Teacher Quality" the under-prepared faculty workforce is necessary to be updated periodically with skills, knowledge, and eciency desirable to the necessities of the present day's tech-savvy society. HRDC is also organising faculty development and training programs endeavour to focus on spiralling the potential building incommunication, knowledge delivery, teaching skills, critical and innovative thinking, competency development in research, etc., to achieve academic excellence.

ABOUT THE SCHOOL

The School of Science and Humanities stands apart from other institutions of higher education and technology since all faculty members are well trained in outcome-based educational methodologies to impart knowledge, which not only forms the basis for further academic achievement of excellence in science and technology but also lays the foundation for faculty and students to pursue a successful professional career in research and higher levels of teaching.

ABOUT THE DEPARTMENT

The Department of Mathematics, established in 1997, plays an important role in engineering disciplines, recognizing the significance of mathematics in solving complex problems. Our faculty members are dedicated to delivering outstanding education through their involvement in teaching, research, and mentorship. We offer a wide range of academic programs, such as M.Sc. (Mathematics) and Ph.D., as well as foundational courses. In addition, we support various programs like M.B.A., M.Sc. data analytics, BBA, B.Com and M.Tech. Implementing specialized software training like MATLAB and R-Language for students enhances their computational abilities and prepares them for advancements in technology. The faculty of our department actively engage in organizing and participating in workshops, seminars, webinars, as well as national and international conferences. We have a team of 48 experienced faculty members who are guiding 91 research scholars, including 42 part-time and 49 full-time students. Active faculty involvement in national and international projects highlights our dedication to advancing mathematical research and engineering innovation.

OBJECTIVES OF THE FDP

Strengthening the understanding of mathematical foundations that underpin modern data-driven technologies such as Artificial Intelligence, Machine Learning, and Cryptography.

Exploring modeling and computational approaches for addressing real-world problems through neural networks and intelligent systems.

Introducing advanced mathematical tools, including Data Envelopment Analysis (DEA) and optimization techniques, for effective decision-making and performance evaluation.

Encouraging interdisciplinary research and innovation by integrating mathematics with data science, engineering, and computational intelligence.

OUTCOMES OF THE FDP

Enhanced understanding of contemporary mathematical concepts and their applications in Artificial Intelligence, Machine Learning, and Data Analytics.

Development of mathematical modeling skills for solving real-world problems involving neural networks, cryptography, and intelligent systems.

Exposure to Data Envelopment Analysis (DEA) methodologies for optimization and efficiency evaluation in diverse application areas.

Strengthened integration of mathematical reasoning with computational tools to promote advanced teaching, learning, and research in data-driven domains.

RESOURCE PERSON DETAILS

Dr. Arya Kumar Bedabrata Chand, *IIT Madras*

Dr. U. Srinivasulu Reddy, *NIT Trichy*

Dr. V. Masilamani, *IIITDM Kancheepuram*

Dr. Amalan Joseph Antony A
IIITDM Kancheepuram

Dr. Deena Sunil
Indira Gandhi National Tribal University, Amarkantak

Dr. Vijayakumar Muni
Smt. Indira Gandhi Government First Grade Women's College, Karnataka

Dr. Mini Ghosh, *VIT Chennai*

Dr. Shruti Dubey, *IIT Madras*