

ORGANIZING COMMITTEE

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Col. Prof. Vel. Dr. R. Rangarajan

Founder President & Chancellor

Dr. Sagunthala Rangarajan

Foundress President

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Patron

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Vice Chancellor

Co-Patron

Prof. Dr. E. Kannan

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Dean - Academics

Prof. M. Siva Kumar

Dean - FME

Prof. J. Viswanath

HOD - Mathematics

Conveners

Prof. P. Suresh

Dean - International Relations & HRDC

Prof. T. Gunasekar

Dept. of Mathematics

Organizing Secretaries

Dr. J. Naresh Kumar,

Asso. Prof., Dept. of Mathematics

Dr. R. Shanmugapriya,

Asso. Prof., Dept. of Mathematics

Dr. G. Saravanakumar,

Asst. Prof., Dept. of Mathematics

Mr. M. Manikandan,

Asst. Prof., ECE & HRDC



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Established in the University Estate on 9.01.83, Avadi, Chennai



Human Resource Development Centre & School of Science and Humanities Department of Mathematics

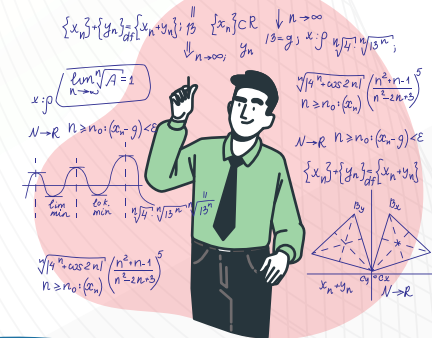
Jointly Organizing

One Week Faculty Development Program

on

"Algebraic System and Combinatorics"

19th - 23rd February 2024



Vel Tech Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
No.42, Avadi-Vel Tech Road, Avadi,
Chennai, Tamil Nadu - 600062

<https://www.veltech.edu.in>

WHO SHOULD ATTEND

Registration is open to all the faculty members and research scholars of any disciplines.

REGISTRATION FEE

Registration Fee of

INR 400/- for Faculty; and

INR 300/- for Research Scholars

■ **50 %** discount will be provided for inhouse participants with restricted count.

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: BARBOVJVELT [Fifth character is "Zero"]

REGISTRATION LINK

<https://forms.gle/ahsZP38dKKvfry4Z6>

(or)

Scan the Bar code ➔



SELECTION PROCESS

Participants are limited to a maximum of 100 on first come-first-serve basis and selected candidates will be intimated through email.

IMPORTANT DATE

Registration last date: **12.02.2024**

Registration confirmation: **14.02.2024**

CERTIFICATES

Based on the attendance Certificate will be issued.

CONTACT DETAIL

Dr. T. Gunasekar and Dr. J. Naresh Kumar

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+91 98948 09569

Email: gunasekar.t@veltech.edu.in,

jnareshkumar@veltech.edu.in

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, Learning, doing Research according to recent trends, 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 efficiency 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 in communication, 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 43 experienced faculty members who are guiding 32 research scholars, including 17 part-time and 15 full-time students. Active faculty involvement in national and international projects highlights our dedication to advancing mathematical research and engineering innovation.

Objective of the FDP

To offer a comprehensive understanding of algebraic structures, encompassing both linear and general algebra concepts and demonstrating their applications across various scenarios.

To equip participants with adept skills in modeling real-world phenomena using differential equations, enabling advanced techniques in complex system modeling across diverse disciplines.

To foster expertise in utilizing graph algorithms for comprehensive problem-solving across diverse domains, emphasizing a deep understanding of their intricacies.

Resource Persons

Dr. K. C. Sivakumar, IIT Madras

Dr. J. Baskar Babujee, MIT Campus, Anna University

Dr. G. Mahadevan, The Gandhigram Rural Institute, Gandhigram, Dindigul

Dr. Shalu M A, IIITDM, Kancheepuram, Chennai

Dr. T. Asir, Pondicherry University, Puducherry

Dr. Kirankumar R. Hiremath, IIT Jodhpur

Dr. Arunkumar Ganesan, IIT Madras

Dr. Sathish Kumar A, IIT Madras

Dr. Venkatarao Chukka, Assam University, Silchar, Assam

Dr. Narsimhulu Dunna, Central University of Tamil Nadu

Outcomes of the FDP

Proficiency in using differential equations as a versatile tool to model and analyze real-world scenarios across scientific disciplines.

Utilizing linear algebra concepts across diverse fields to enhance problem-solving skills and practical understanding in various applications.

Expertise in employing sampling operators for accurate representation of data or functions through discrete sampling methodologies.

