

# FACULTY DEVELOPMENT PROGRAMME

06 - 13

January 2025



## Applications of Mathematics in Science and Technology

Case Studies and Hands-on Sessions (Hybrid Mode)

Organised by

Centre for Studies in Discrete Mathematics (CSDM),  
Department of Applied Sciences and Humanities & IQAC  
Vidya Academy of Science and Technology, Thrissur

Sponsored by

Indian Society for Technical Education (ISTE)  
& Kerala Mathematical Association (KMA)



WWW.vidyaacademy.ac.in



### RESOURCE PERSONS



**Dr. V. N. Krishnachandran**  
Principal( Retd.),  
Govt. Victoria College, Palakkad



**Dr. B. Sridharan**  
Department of Civil Engineering,  
IIT, Palakkad



**Dr. Sudha Balagopalan**  
Director, Outreach & Professional Development,  
Christ College of Engineering, Irinjalakuda



**Dr. Sudheesh. R.S**  
Department of Mechanical Engineering ,  
Govt. Engineering college, Kozhikode



**Dr. Dhanyamol M. V**  
Head of the Department,  
Computational Science and Humanities,  
IIIT, Kottayam



**Dr. A. Seema**  
Scientist , Centre for Materials for  
Electronics Technology (C-MET)



**Dr. P. B. Vinod Kumar**  
Muthoot Institute of Technology And Science

Registration Link: <https://forms.gle/kL6cbNt4bVxRwKdN9>

**REGISTRATION FEE : Rs. 300**

Account Number: 240301000050638

IFSC Code: IOBA0002403

Indian Overseas Bank,  
Thalakkottukara - 680501

Accommodation available in  
the college hostel for a limited  
number of participants on  
request. (Rs. 500 per day)

## About the College

Vidya Academy of Science & Technology (VAST) established in 2003, is a self financing Engineering College affiliated to APJ Abdul Kalam Technological University, Kerala with competent and committed faculty, top notch infrastructure and high technology teaching aids. The college offers B.Tech programmes in six streams of Engineering, M.Tech programmes in two specializations, MCA programme and Ph.D programmes in Engineering and Mathematics. VAST has a holistic approach to education where academic training goes hand with social commitment

## About the Department

The Applied Sciences and Humanities (AS&H) Department aims to ensure students develop strong expertise in the essential building blocks of engineering including experimental, analytical, computational, and design capabilities. The department has well-qualified and experienced faculty members with specializations in Applied Probability, Operations Research, Analysis, Algebra, Discrete Mathematics, Fuzzy Mathematics, Special Functions, Applied Mathematics and Nano Science.

### Target participants :

Faculty members from Engineering, Degree & PG Colleges, Junior Scientists from R&D organizations and Research Scholars.

Program Convenor

Dr. Siju K. C

Program co-ordinators

Dr. Vineetha C. P, Ms. Rachana Sajeev

## About the CSDM

The Centre for Studies in Discrete Mathematics (CSDM) is an initiative of the Department of Applied Science, VAST, Thrissur, to encourage quality research in Discrete Mathematics and allied areas, in collaboration with other reputed institutions and centres of excellence. The Centre also organises many activities by itself and together with other similar research centres. The Centre is envisaged to act as an avenue for our teachers to interact with experts of national and international repute in the specific subject areas concerned.

Contact Persons:

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## About the FDP

**The integration of Mathematical Concepts and Modern Computational Techniques is a powerful approach that enables engineers to solve, analyze, and interpret complex engineering problems more efficiently and accurately. The FDP aims to provide an exposure to both basics and recent advances in applications of Mathematical Sciences to various fields of Engineering & Technology.**

### Focus Areas:

- Computer Algebra Systems
- Mathematics for Computer Science and Artificial Intelligence
- Applications of Mathematics in Civil Engineering a case study presentation
- Transform Techniques in Electrical Engineering
- Mathematics and Physical Sciences in Sensor Technology
- Applications of Mathematics in Mechanical Engineering
- Stochastic Processes in Engineering

Certificate of participation will be awarded to all the registered participants based on attendance and performance in the test

### MANAGMENT COMMITTEE

Mr. Sabu Soumian, Chairman, Vidya International Charitable Trust (VICT)  
Mr. Gireesh Kumar Malattiri, Vice Chairman, VICT  
Er. P. K. Asokan, Chief Patron, VICT  
Mr. Suresh Lal, Executive Director, VICT  
Adv. P. N. Unnirajan, IPS( Retd.), Administrative Director, VICT

### ADVISORY COMMITTEE:

Dr. K.B.M Namboodiripad, Professor of Mechanical Engineering (Retd.), NIT Calicut  
Dr. Mahesh Kumar, HOD, Department of Mathematics, NIT Calicut ,  
Dr. Sunny Kuriakose, Kerala Mathematical Association (KMA)  
Dr. P. B. Vinod Kumar, Professor, Muthoot Institute of Technology and Science  
Dr. V. N. Krishnachandran, Principal (Retd.), Govt. Victoria College, Palakkad  
Dr. Sudha Balagopalan, Director Outreach & Professional Development. Christ College of Engineering. Irinjalakuda.  
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Dr. Nitin Padmanabhan, Scientist, EPRI, USA  
Dr. Sunitha.C, Principal, Vidya Academy of Science and Technology (VAST)  
Dr. Jiby Jose , Professor & HoD, Dept. of AS & HS, VAST