

## About the FDP

Discrete mathematics is a fundamental subject in computer science, mathematics, and engineering. It provides the foundational concepts and tools needed for understanding algorithms, cryptography, data structures, and many other essential areas of study. Additionally, it is a critical part of the current technology revolution, with applications in machine learning, artificial intelligence, and cyber security. Our faculty development program on discrete mathematics is a comprehensive and intensive training program that covers the fundamental concepts and tools needed to teach this subject effectively. The program is designed for educators who are either new to teaching discrete mathematics or who wish to enhance their existing knowledge and skills.

## Registration Details

Interested participants must register and make the payment at <https://events.vit.ac.in/>

**Registration Fee: Rs. 200 + Tax**

**Registration Deadline: 11<sup>th</sup> June 2023**

<https://chat.whatsapp.com/F3PqVHZygGOKoNSaDrqSvp>

Please join the above WhatsApp group for further notifications about the workshop.

## Resource Persons

- Dr. G. Sethuraman, Anna University, Chennai.
- Dr. R. Sampathkumar, Annamalai University, Chidambaram.
- Dr. P. Selvakumar, VIT Vellore, Vellore.
- Dr. Baskar Babujee J, Anna University, Chennai.
- Dr. Kavaskar T, Central University, Thiruvaur.
- Dr. Micheal Arockiaraj, Loyola College, Chennai.
- Dr. Jessica Fernandes e Pereir, Goa University, Goa.
- Dr. Rakesh Prasad Badoni, Mahendra University, Hyderabad.
- Dr. R. Lakshmi , Annamalai University, Chidambaram.
- Dr. S. Sampathkumar, SSN, Chennai.
- Dr. Ganesamoorthy, Periyar Univeristy, Salem.
- Dr. Simon Raj F, SIMATS, Chennai.
- Dr. P. Ragukumar, VIT Vellore, Vellore.
- Dr. Raja V , VIT AP, Vijayawada.
- Dr. Jayagopal, VIT Chennai, Chennai.

## Topics to be covered

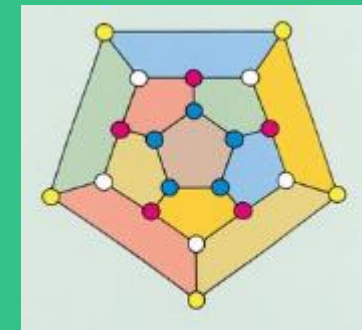
1. Graph Algorithm
2. Graph Decomposition
3. Network security
4. Graph domination
5. Graph labeling
6. Chemical graph theory



# VIT<sup>®</sup>

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

## A Five-Day Online FDP on Discrete Mathematics 13<sup>th</sup> June – 17<sup>th</sup> June 2023



**Organized by**

Department of Mathematics  
School of Advanced Sciences  
Vellore Institute of Technology  
Vellore, India



**VIT – A Place to Learn; A Chance to Grow**

## About VIT

VIT has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, intertwined with extensive application-oriented research. VIT was established with the aim of providing quality higher education at par with institutions of international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education in all fields of science and technology. VIT was established by the well-known educationalist and former parliamentarian, honorable Dr. G. Viswanathan, the Founder and Chancellor, a visionary who transformed VIT into a Centre of excellence in higher technical education. In Engineering and Technology, VIT stands 240<sup>th</sup> best in the World and the 9<sup>th</sup> best in India (as QS World University Ranking 2023). Also based on the same survey, Eight subjects of VIT are within the top 500 in the world. It is ranked the 9<sup>th</sup> best university and 10<sup>th</sup> best research institution and the 12<sup>th</sup> best engineering institution in India (NIRF ranking, Govt. of India 2022). It is ranked within the top 200 universities in Asia (QS – Asia University rankings 2022) and has got A++ in the 4<sup>th</sup> cycle of NAAC accreditation.

## About the School

School of advanced sciences (SAS), a platform for intellectuals in VIT, is pledged to internationally acclaimed research and inventive instruction with a priority on disciplinary rigor and establishing academic achievement. SAS comprises three academic departments spanning Mathematics, Physics, and Chemistry. The school offers Ph.D. research programs in all these disciplines and Master's Programmes in Mathematics, Physics, and Chemistry.

## About the Department

The subject of Mathematics in VIT is ranked within the top 11 in India and top 351-400 in the world as per QS World University Rankings by Subject 2023. The Mathematics department has 133 faculty members who support the other engineering departments through teaching and are also actively involved in academic research in different areas of Mathematics. Currently, the department is offering Masters Programs in Data Science, Business Statistics, Integrated M.Sc. Computational Statistics and Data Analytics, Integrated M.Sc. Mathematics and PhD with a plethora of field expertise. Several departmental research projects are financially supported by the leading funding agencies such as CSIR, DRDO, DST, NBHM and MHRD.

### Chief Patron

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Dr. Murugan V  
Dr. Rajasekaran G  
Dr. Clement J  
Department of Mathematics,  
School of Advanced Sciences,  
Vellore Institute of Technology,  
Vellore.



+91 9566666876

+91 9715375439



[murugan.v@vit.ac.in](mailto:murugan.v@vit.ac.in)