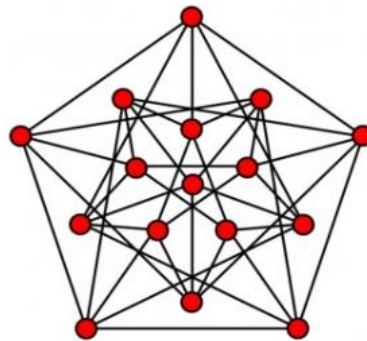




**International Virtual Seminar on  
Exploring Graph Theory - The Way We Envision It**

**20<sup>th</sup> April 2025**



**Organised by Department of Mathematics, School of Advanced Sciences, VIT, Vellore**

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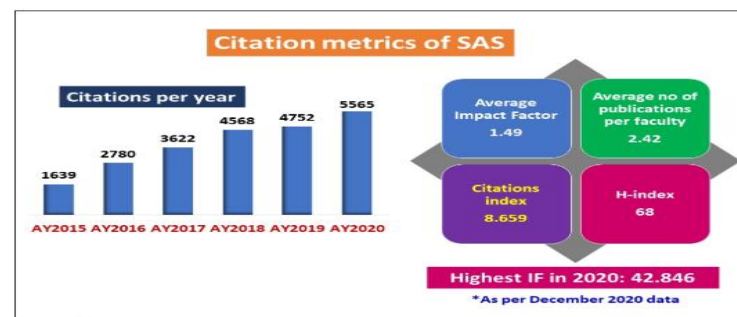
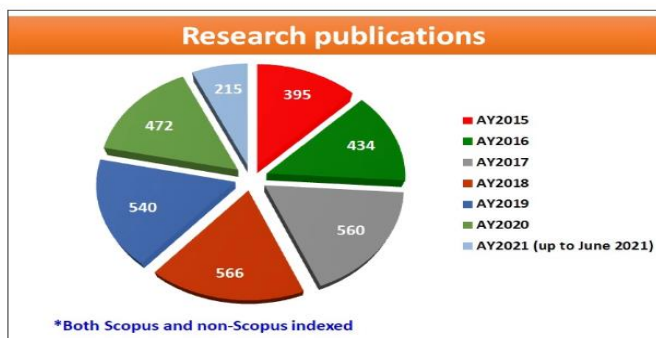
## ABOUT VIT

VIT was established under Section 3 of the University Grants Commission (UGC) Act, 1956 and was founded in 1984 as a self-financing institution called the Vellore Engineering College. The Union Ministry of Human Resources Development conferred University status on Vellore Engineering College in 2001, in recognition of its excellence in academics, research and extracurricular initiatives. The University is headed by its founder and Chancellor, Dr. G. Viswanathan, a former Parliamentarian and Minister in the Tamil Nadu Government. In recognition of his service to India in offering world class education, he was conferred an honorary doctorate by the West Virginia University, USA. Currently, VIT has 5 campuses in Vellore, Chennai, Amravati, Bhopal and Bangalore. NIRF of the MHRD, Government of India, has ranked VIT 10<sup>th</sup> best in University, 13<sup>th</sup> best in Research, 11<sup>th</sup> best in Engineering, 19<sup>th</sup> best in Overall category in 2024. VIT has gone for accreditation by NAAC [India], IET [UK], and ABET [USA] and follows world class academic processes. VIT is one of the top 2 institutions of India and within the top 501-600 Universities of the world as per Shanghai ARWU Ranking 2024. VIT is also ranked by QS World University Ranking, Times Higher Education (THE) World University Ranking, US News Ranking, Round University Ranking, Russia and others. VIT is the first institute of India to receive QS 4-Star rating in overall category and QS 5-Star rating in teaching, employability, facilities, innovation and inclusiveness.



## SCHOOL OF ADVANCED SCIENCES

School of Advanced Sciences (SAS), which was established in the year 1984, comprises Mathematics, Physics, and Chemistry departments. The school consists of a total of 232 experienced and energetic faculties. The school has been receiving research grants from various funding agencies such as DST, CSIR, DRDO, NBHM, BRNS, IGCAR, AERBA, NRB and ARDB.



The school has also been recognized by DST for support under the FIST programme. The school conducts various programmes such as InoVIT, SciGATHER, and National Science Day. The school offers University core and elective courses in Mathematics, Physics and Chemistry for all UG Programmes. The school offers M.Sc. programs in Chemistry, Physics and Mathematics. It also offers core and elective courses for all PG Programmes. The school offers Ph.D. programs in frontier research areas.

## DEPARTMENT OF MATHEMATICS




The Department of Mathematics comprises 133 faculty members dedicated to fulfilling the needs of all the engineering departments. The faculty members of the department are specialized in frontier areas of mathematics such as Operations Research, Queuing Theory, Fuzzy Mathematics, Algebra, Analysis, Complex Analysis, Differential Equations, Fluid Dynamics, Graph Theory, Inventory Systems, Coding Theory, Mathematical Modeling, Numerical Methods, Mathematical Biology and others. Several research projects of the department are financially supported by some of the leading funding agencies such as CSIR, DRDO, DST and NBHM. The department offers Ph.D., Statistics and Data Science in addition to M.Sc. (Data Science), M.Sc. (Business Statistics), Integrated M.Sc. (Computational Statistics and Data Analytics) and Integrated M.Sc. (Mathematics) programmes. The department is also serving the requirements of the leading industries through consultancy projects. The department of mathematics has a good record of frequently organizing seminars, workshops, symposiums and conferences in the recent emerging technical areas. VIT Mathematical Meet is conducted every year by the department, which is a south Indian level math and science contest for school children, to create and encourage mathematical and scientific innovations among the students.



## SEMINAR FOCUS

Starting humbly with Euler in 1735, the knowledge of graph theory is advantageous as it offers a robust mathematical framework for analysing and identifying patterns and decision-making based on interconnected data. The core concepts of graph theory have disseminated their understanding to examine issues in molecular chemistry, communication networks, mathematical biology, genomics, drug development, machine learning and more. This seminar aims to unite individuals from various areas of graph theory, with the hope that the knowledge exchanged will inspire fruitful research outcomes.

## SEMINAR SPEAKERS

	<p><b>Dr. H. S. Ramane,</b> Senior Professor, Department of Mathematics, Karnatak University, Dharwad, Karnataka, India.</p>		<p><b>Dr. E. Suresh</b> Assistant Professor Department of Mathematics Faculty of Engineering and Technology SRM Institute of Science and Technology, Chennai.</p>		<p><b>Dr. Sourav Mondal</b> Research Fellow, RISE, Research Group MASEP, University of Sharjah, Sharjah, 27272, UAE. (Assistant Professor, Department of Mathematics, SRM, Chennai )</p>
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## SEMINAR THEME

The seminar will cover a broad range of topics in Graph Theory.

## TARGET AUDIENCE

Students of any UG / PG Degree/Research Scholars, Faculties, Academicians and Researchers.

## SUBMISSION & REGISTRATION STEPS

### TOPICS

*Open to all topics of all disciplines* ( Presentation sessions are designed disciplinary )

### CALENDAR

Last Date of abstract submission: 15 – 04 – 2025

Last Date of full manuscript submission: 30 – 04 – 2025

### PRESENTATION TYPE

Online presentation by MS teams

### PUBLISHING PROCESS

All abstracts and selected papers (as decided by peer review team) will be published as Book Chapter with ISBN number provided by VIT .

### APPLICATION PROCESS

- 1- Submit your abstract via google form using the link to <https://tinyurl.com/3amhmaja> by April 20, 2025 as word or pdf.
- 2- If your abstract is accepted by referees, we send you an acceptance letter by email within 3 days (after your application).
- 3- Full text is not mandatory. If you want to send full text, you need to submit it by April 30, 2025.
4. Abstract submission: MS Word, Times New Roman, Font size 12, Line spacing 1.5.

## REGISTRATION FEE

Category	Participation only	Participation with Paper Presentation
Students	150 + GST	500 + GST
Others	250 + GST	750 + GST

### Participation Certificate

- Participation certificates will be issued upon fee payment and participation in the seminar.

### Paper Presentation Certificate

- Certificates will be issued only after paper presentation by the author.

In case of multiple authors, note that

- the presenter should register and pay the paper presentation fees and present the paper
- the other authors should register and pay the participation fee.

Participants are requested to register online by paying the required registration fees (non-refundable) using the link below.

**Registration Link:** <https://events.vit.ac.in/>

Certificate will be awarded on successful completion of the Seminar.

### CONTACT DETAILS

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