



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Discussion Points

Title : Fascinating Applications of Mathematics

Date : 01-Apr-2024 - 05-Apr-2024

Time : 10:00 - 17:30

Venue : SMV LAB G15

- Statistical Survival Model
- Extremal Graphs Topological Indices
- Heat transfer optimization, machine learning, Numerical approximation
- Numerical approximation
- Decompositions of Graphs
- Fixing number
- Vector analysis
- Oscillatory liquid flows
- Mathematical Bio-economics
- Program using MATLAB
- Graph Theory, Applications
- Mathematics in the fields of Engineering and Technology
- Oscillatory liquid flows
- Graph Theory, Dominating set
- Linear Algebra, MATLAB
- Clinical trials and Medical statistics

	<p>Resource Person 1 - Details Name : Dr Faizan Danish Designation : Assistant Professor , SAS University/ Company : VIT AP, Andhra Pradesh Address : India, 522241.</p>
	<p>Resource Person 2 - Details Name : Dr E Suresh Designation : Assistant Professor, Department of Mathematics University/ Company : SRMInstitute of Science and Technology, Kattankulathur Address : India, 603203.</p>
	<p>Resource Person 3 - Details Name : Yamuna M Designation : Professor Grade 1, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 4 - Details Name : Sathya Narayana Sharma K Designation : Assistant Professor Grade 1, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 5 - Details Name : Karthika K Designation : Assistant Professor Sr. Grade 1, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 6 - Details Name : Peri Kameswara Kameswaran Designation : Associate Professor Grade 1, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 7 - Details Name : Phaneendra T Designation : Professor Higher Academic Grade, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 8 - Details Name : Venkata Satyanarayana Designation : Associate Professor Sr., School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>

	<p>Resource Person 9 - Details Name : Sri Rama Vara Prasad Bhuvanagiri Designation : Associate Professor Grade 2, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 10 - Details Name : Dr R Sundareswaran Designation : Associate Professor , Department of Mathematics University/ Company : Sri Sivasubramaniya Nadar College of Engineering, Chennai Address : India, 600020.</p>
	<p>Resource Person 11 - Details Name : Dr C Ponnuraja Designation : Scientist, Department of Statistics University/ Company : National Institute for Research in Tuberculosis, Chennai Address : India, 600031.</p>
	<p>Resource Person 12 - Details Name : Dr M Senthilvelan Designation : PROFESSOR and HEAD , Department of Nonlinear Dynamics University/ Company : Bharathidasan University , Tiruchirappalli Address : India, 620024.</p>
	<p>Resource Person 13 - Details Name : Dr S Sampath Kumar Designation : Assistant Professor, Department of Mathematics University/ Company : Sri Sivasubramaniya Nadar College of Engineering, Chennai Address : India, 603110.</p>
	<p>Resource Person 14 - Details Name : Dr R Sivaraj Designation : Associate Professor, Department of Mathematics University/ Company : Dr B R Ambedkar National Institute of Technology, Jalandhar Address : India, 144011.</p>

Resource Person's Profile :

1. Profile of Dr Faizan Danish

Dr. Danish. Assistant Professor, VIT AP was as postdoctoral Fellow in New York University and published around 30 research papers in reputed journals. He was a biostatistician under research consultancy services, Qatar. He has been awarded two Young scientist awards and best thesis award. He has research expertise in Sampling Theory, Mathematical Programming, Applied Statistics and Biostatistics.

2. Profile of Dr E Suresh

Dr. E. Suresh, Assistant Professor at SRM Institute of Science and Technology completed his post doctor fellow at university of Haifa. He is specialized in graph theory. He has almost 40 publications in reputed journals.

3. Profile of Yamuna M

Dr. M. Yamuna is a Professor (Grade 1), interested in applying theoretical graph theory to applications, since most applications have some strong theory behind them.

4. Profile of Sathya Narayana Sharma K

Dr. Sathya Narayana Sharma K, Assistant Professor, VIT, Vellore received his Ph. D in 2020. He is specialized in statistical quality control, reliability sampling plan, distribution theory, statistical machine learning. He has published 3 books with IEEE and springer nature.

5. Profile of Karthika K

K. Karthika is an Assistant Professor (Sr) with 11 years of teaching experience at VIT, Vellore. She is interested in applying theoretical graph theory to applications.

6. Profile of Peri Kameswara Kameswaran

Dr. Peri Kameswara Kameswaran completed his Ph.D. in Applied Mathematics from the Department of Applied Mathematics, Andhra University, Andhra Pradesh in 2011. From 2012-2014 he was a Post-doctoral fellow from School of Mathematics, Statistics and Computer Science, University of Kwazulu-Natal, South Africa. He published more than 60 research articles in reputed National and International journals .

7. Profile of Phaneendra T

Dr. Phaneendra T, Professor, VIT, Vellore is NET qualified with rich experience in teaching and research. He was a JRF and SRF from CSIR. He is published 72 research articles in reputed journals.

8. Profile of Venkata Satyanarayana

Dr. Venkata Satyanarayana, Associate Professor Sr, VIT, Vellore is recognized as top 2 percentage scientists. He has around 165 publications. He is a IQAC Coordinator at VIT. He is interested in fluid dynamics.

9. Profile of Sri Rama Vara Prasad Bhuvanagiri

Dr B.S.R.V. Prasad, Associate Professor, Grade 2 obtained his doctoral degree in developing mathematical models with biological control, conservation applications. He is a UGC DS Kothari Post-Doctoral Fellow and a Young Scientist Project Awardee in Mathematics by DST, India, and successfully executed a research project worth Rs. 10.56 Lakhs from 2014-2017.

10. Profile of Dr R Sundareswaran

Dr. R. Sundareswaran is currently working as Associate Professor in the Department of Mathematics, SSN College of Engineering, Chennai, India. He has more than 15 years of teaching experience and 12 years of research experience. He published more than 50 research articles in international journals and had fellowships in DST sponsored Project entitled Domination Integrity in Graphs.

11. Profile of Dr C Ponnuraja

Dr C Ponnuraja working as Scientist F and heading the department of statistics, ICMR, National Institute for Research in Tuberculosis, Chennai, He has 25 years of experience in control clinical trials and medical statistics as well as experience in data analyses using various software. He has published 100 articles in scientific journals and received young scientist award by the Indian Society for Medical Statistics in 2010.

12. Profile of Dr M Senthilvelan

Dr. M. Senthilvelan, Professor and Head, Department of Nonlinear Dynamics, Bharathidasan University has a JCR impact factor 239.316, H index 27, total citation 2538 with 134 journal publication is interested in Dynamical systems. He has completed 7 projects and 2 ongoing. He has guided 8 Ph.D and 14 M. Phil students.

13. Profile of Dr S Sampath Kumar

Dr. S. Sampath Kumar, Assistant Professor, SSN College of Engineering, Kalavakkam is a JRF and SRF from DST. He is the first rank holder at Annamalai University. He has received the Ramasamy Padayatchiar Endowment for two consecutive years from Government of Tamilnadu. He is interested in graph theory.

14. Profile of Dr R Sivaraj

Dr R. Sivaraj has more than 11 years of teaching and research experience and presently, he is working as an Associate Professor in the Department of Mathematics and Computing in NIT, Jalandhar. He worked as a Postdoctoral Fellow in the Department of Mathematics, United Arab Emirates University. He has published 60 manuscripts in reputed journals and his H-Index is 22 with more than 1400 citations. He has published a book in Chapman and Hall CRC, New York.

The five-days FDP hosted by the Department of Mathematics and TLCE, desires to bring together experts, scholars, researchers and scientist from various mathematical disciplines. This FDP aims to promote collaboration, innovation and engage in research exercises, so that the task of knowledge exchange goes on in full swing. We welcome you to this platform for the exchange of cutting-edge research and ideas, hoping it will be a memorable and fruitful experience for all participants.

Topics to be covered: Calculus, Chemical graph theory, Dominating sets, Elliptic pde, Fixing number, Fluid dynamics, Graph decomposition, MATLAB, Mathematical bio economics, Medical statistics, Statistical survival models.

System

**Coordinator's: Prof. KARTHIKA K 13372 - Assistant Professor Sr. Grade 1 - SAS
Prof. YAMUNA M 10527 - Professor Grade 1 - SAS**