Faculty Profile

Name : Dr. Roopa S V Designation : Professor & Head Department : Mathematics Contact Details: E-mail : svrroopa@nie.ac.in Phone : 9900136887	

About me: Dr. Roopa S. V. is a Professor and Head of the Department of Mathematics at The National Institute of Engineering, Mysuru. With nearly three decades of teaching experience, she has made significant contributions to higher education in mathematics. Her primary research interest lies in Spectral Graph Theory. She has authored nine journal publications and one conference proceeding, and has five research papers at national and international conferences. Dr. Roopa is currently guiding three Ph.D. scholars, contributing actively to research development in her field. Her academic interests include Graph theory, Linear algebra and their applications in science and engineering.

Qualification:

B.Sc: (Mysore University) M.Sc: (Mysore University) Ph.D: (VTU Belagavi)

Courses Taught:
UG:
1. Linear Algebra
2. Calculus
3. Probability and Statistics
4. Number theory
5. Numerical analysis
6. Complex analysis

PG:
1. Linear Algebra
2. Calculus
3. Probability and Statistics

Journal Publication:

- D. P. Pushpa, **S. V. Roopa**, M. A. Sriraj, P Siva kota Reddy, Seidel Energy of some large graph, Boletim da sociedate parananese de Mathematica 2025(43) 1-16, 2025
- D. P. Pushpa, **S. V. Roopa**, M. A. Sriraj, On Partition Energy of Lexicographic Product of Regular Graphs, IAENG International Journal of Applied Mathematics, 55(9), 2999-3005, 2025

- B. C. Shwetha, M. A. Sriraj , **S. V. Roopa** , C. R. Veena : Partition energy of m-splitting graph and their generalized complements, Proyecciones (Antofagasta), 43(5), 1113-1139, 2024

- MA Sriraj, BC Shwetha, CR Veena, **SV Roopa:** Partition energy of some lexicographic product of two graphs, Jangjeon Math. Soc, 25(4), 435-454, 2022

- E Sampathkumar, **SV Roopa**, KA Vidya, MA Sriraj: Partition energy of some trees and their generalized complements, TWMS Journal of Applied and Engineering Mathematics, 10 (2), 521-531, 2020

- E Sampathkumar, **SV Roopa**, KA Vidya, MA Sriraj: Partition Laplacian energy of a graph, Palestine Journal of Mathematics, 8(1), 272-284, 2019

- E. Sampa&kumar, **S. V. Roopa**, K. A. Vidya and M. A. Sriraj: Partition energy of complete product of circulant graphs and some new classes of graphs, Advanced Studies in Contemporary Mathematics, 28(2), 269-283, 2018

- **SV Roopa**, KA Vidya, MA Sriraj: Partition Energy of Amalgamation of Complete Graphs and their Generalized, Indian J. Discrete Math, 2(1), 18-36, 2016

- E Sampathkumar, **SV Roopa**, KA Vidya, MA Sriraj: Partition energy of a graph, Proceedings of the Jangjeon Mathematical Society (장전수학회 논문집), 473-493, 2015

Conference Proceedings:

S. V. Roopa, K. A. Vidya, Partition energy of graph constructed using complete graph & cycles. Proc. National Conference on Advances in Mechanical Engineering and Applied Sciences. Dayananda Sagar College of Engineering, Bengaluru, (AMEAS-2016), ISBN No: 978-93-84935-77-1. 2015

Other achievements:

Best paper award in the National conference RAAS-2016 at AMC Engg College, Bengaluru. AMC Engg College, Bengaluru, 26-4-2016.

Membership in Professional Bodies/University bodies/Organizations

Sl.No.	Type of Membership	Professional Bodies/University bodies/Organizations/Others	Period of Membership
1	Lifetime	ISTE	
2	Lifetime	ADMA	

Number of Candidates Presently working for M.Sc., (By Research) & Ph.D. Degree under your Guidance

Sl.No.	Name of the Candidate with USN	Degree for which Registered	Title of the Thesis	Commencement Year	Probable date of Submission
1	Ms. Pushpa D P (4NI19PMA01)	Ph.D	On Different notions of Graph spectra and energies	2018	2026
2	Ms. Sowmya K (4NI23PMA01)	Ph.D	Spectral Graph Theory	2025	2029
3	Mr. Kiran Paul (4VV21PMA03)	Ph.D	Some studies on Algebraic Graph Theory	2023	2027

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