



Name: Dr. Yogalakshmi. Y

Designation: Assistant Professor

Department: Mathematics (UG – SF)

Qualification: M.Sc., M.Phil., Ph.D.,

Experience: Teaching - 4 Years

Area of Specialization(s): Graph Theory

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AcademicQualifications

Degree	Branch	Institution/UniversityName	YearofGraduation
Ph.D	Mathematics	Nirmala College for Women, Coimbatore	2025
M.Phil.	Mathematics	PSGR Krishnammal College for Women, Coimbatore	2017
M. Sc.	Mathematics	PSGR Krishnammal College for Women, Coimbatore	2015
B.Sc.	Mathematics	PSGR Krishnammal College for Women, Coimbatore	2013

AdditionalQualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
Certification	Coursera	What is Data Science?, IBM Skills Network	2022
Certification	Coursera	IBM Data Topology, IBM	2022
Certification	Coursera	Cryptography, University of Maryland	2023
Certification	Coursera	AI for Everyone, Deeplearning.AI	2023
Certification	Coursera	Python for Data Science, AI & Development, IBM	2025
Certification	Coursera	Math Prep: College & Work Ready, University of North Texas	2025

Research Publications (Indexed)

- “A STUDY ON COVERING EXTENDED ENERGY OF A GRAPH”, **INDIAN JOURNAL OF NATURAL SCIENCES**, Vol 14, Issue 77, April 2023. (WEB OF SCIENCE)

- “A STUDY ON MINIMUM EFFICIENT DOMINATING EXTENDED ENERGY OF SOME GRAPHS “, **JOURNAL OF PROPULSION TECHNOLOGY**, Vol 45 No. 3, 2024. (SCOPUS)
- “MINIMUM COVERING EXTENDED ENERGY FOR SOME COMMON FEVER DRUGS AND ITS RESTRICTIONS”, **AIP CONFERENCE PROCEEDINGS**, Volume 3267, Issue 1, 12 June 2023. (SCOPUS)

Paper Presentations in Conference

- Presented the paper titled “On Maximum Independent D - Energy of a Graph” in a Two Day International Conference on “Mathematics, Statistics & Applications”, VFSTR, 10th & 11th Jun 2022.
- Presented the paper titled “Efficient Dominating Extended Energy of a Graph” in a Two Day National Conference on “Discrete Mathematics and its Applications”, Velammal College of Engineering & Technology, 15th & 16th Jul 2022.
- Presented the paper titled “A Study on Covering Extended Energy of a Graph” in International Conference on “Contemporary Approaches in Science & Humanities: Future Prospects”, Nirmala College for Women, 2nd & 3rd Feb 2023.
- Presented the paper titled “A Study on Covering Extended Distance Energy of a Some Graphs” in International Conference on “Recent Trends in Mathematics and Computer Science”, Auxilium College of Arts and Science for Women, 19th – 21st Oct 2023.
- Presented the paper titled “Minimum covering extended energy of some common fever drugs and its restrictions” in Third International Conference on “Applied Science Mathematics and Statistics”, Kongunadu College of Engineering and Technology, 17th May 2024.
- Presented the paper titled “Minimum covering extended distance energy of some common fever drugs and its restrictions” in International Conference on “Modelling Strategies in Mathematics”, Nirmala College for Women, 22nd & 23rd Oct 2024.
- Presented the paper titled “Extended distance energy of some graphs and common fever drugs” in 2nd International Conference on “Evolution in Pure & Applied Mathematics”, Akal University, 20th to 22nd Nov 2024.
- Presented the paper titled “A study on minimum dominating extended distance energy of some graphs” in Third National Conference on “Mathematics: Pure, Applied and Computational”, Kongunadu College of Engineering and Technology, 14th May 2025.

Participation in Conference

- International Conference on “Recent Trends in Theoretical and Computational Mathematics”, PSGR Krishnammal College for Women, 24th & 25th Feb 2022.
- International Conference on “Progress in Mathematics towards Industrial Applications”, SRMIST, 28th & 29th Oct 2022.

- International Conference on “Mathematical Analysis in Computational Biology and Data Science”, PSGR Krishnammal College for Women, 24th & 25th Jan 2023.

Participation in Seminars

- Training Programme on “E – Resources in J – GATE”, Nirmala College for Women, 26th Mar 2022.
- Online Seminar titled “Mathematical Modelling in Image Processing”, Dr. M.G.R. Educational and Research Institute, 23rd Apr 2024.
- Online Seminar titled “Mathematical Modelling in Image Processing”, Dr. M.G.R. Educational and Research Institute, 28th Aug 2024.
- International Guest Lecture on “What is Gaussianity in Non commutative Probability? And, Why do we care?” SRMIST, 29th Nov 2024.
- Online Seminar titled “Role of Algebra in Real Life”, Dr. M.G.R. Educational and Research Institute, 29th Jan 2025.
- Online Seminar titled “The Role of Graph Theory in Various Fields”, Dr. M.G.R. Educational and Research Institute, 18th Jun 2025.

Participation in Workshop

- International Workshop on “Structural Mathematics using Graph Theory”, SRMIST, 13th to 15th Dec 2021.
- International Workshop on “Introduction to Mathematical Ecology”, SRMIST, 4th Feb 2022.
- Workshop on “Cross – discipline Platforms: Scopus, ScienceDirect and Mendeley”, MathTech Thinking Foundation, 11th Mar 2022.
- Workshop on “Graph Theory using Python”, Vellore Institute of Technology, 3rd Sep 2022.
- International Workshop on “Academic Writing – Ethical issues”, Global Institute of Statistical Solutions, 3rd to 5th Sep 2022.
- National Workshop on “Fuzzy Theory and Combinatorics”, Vellore Institute of Technology, 14th and 15th Dec 2022.
- International Workshop on “Applied Mathematics”, SRMIST, 6th to 8th Feb 2023.
- 3rd National Workshop on “Recent Trends in Mathematics”, St.Peter’s Institute of Higher Education & Research, 13th Apr 2023.
- Workshop on “R Programming for Research”, Vellore institute of Technology, 29th to 30th May 2023.
- National Workshop on “Applied Mathematics and Computing”, Madhav Institute of Technology and Science, Jun 12th to 16th Jun 2023.
- International Workshop on “Role of Mathematics in Machine Learning”, SRMIST, 4th and 5th Sep 2023.
- International Virtual Workshop on “Ramification of AI In Entrepreneurship Development”, B.L.D.E.A’s Commerce, BHS Arts and TGP Science College, 9th May 2024.
- Workshop titled “Scientific Computing using MATHEMATICA”, Geethanjali College of Engineering and Technology, 23rd to 25th May 2024.

- International Virtual workshop on “The Equation of Intelligence: Exploring the Fusion of Mathematics and AI”, SRMIST, 23rd and 24th Aug 2024.
- National Workshop on “Graph Theory in memory of Prof. E. Sampathkumar”, Sridharacharya Academy of Mathematical Sciences, 22nd Sep 2024.
- Workshop titled “LaTeX for Academic Writing”, Dr. M.G.R. Educational and Research Institute, 3rd & 4th Jun 2025.

Participation in Faculty Development Programme

- International FDP “Frontiers of Mathematics”, SRMIST, 19th May to 2nd Jun 2022.
- International FDP “Current Trends in Applications of Mathematics”, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, 21st Sep to 4th Oct 2022.
- National FDP on “Research Methodology: Analysis, Tools & Techniques”, Theivanai Ammal College for Women, 28th Dec 2022 to 3rd Jan 2023.
- FDP on “Open Source Software Tools for Research”, Vellore Institute Technology, 13th to 17th Mar 2023.
- FDP on “Essential of Data Science”, Vellore Institute of Technology, 15th to 19th May 2023.
- Faculty Enhancement Programme, PSGR Krishnammal College for Women, 5th to 10th Jun 2023.
- International FDP on “Recent Trends in Graph Theory and Mathematical Modelling & its Applications, Mohamed Sathak A. J. College of Engineering, 12th to 16th Jun 2023.
- “A Five – Day Online FDP on Discrete Mathematics”, Vellore Institute of Technology, 13th to 17th Jun 2023.
- International FDP “Frontiers of Mathematics”, SRMIST, 5th Jul to 19th Jul 2023.
- “A Five – Day Online FDP on Advances in Graph Theory”, Vellore Institute of Technology, 11th to 15th Sep 2023.
- FDP on “Empowering Academicians: AI – Powered Research for Excellence”, PSGR Krishnammal College for Women, 3rd Oct 2023.
- FDP on “Stress Management”, PSGR Krishnammal College for Women, 4th Oct 2023.
- FDP entitled “Recent Trends in Mathematics and Technology”, OP Jindal University, 9th to 13th Oct 2023.
- FDP on “3rd Mathematical Sciences for CSIR – UGC NET Aspirants, Vellore Institute of Technology, 17th to 21st Oct 2023.
- FDP on “Recent Advances in Mathematical Analysis & its Applications”, St. Joseph’s College of Engineering, 22nd to 23rd Nov 2023.
- International Virtual PDP on “Developing your Professional Edge: Strategies for Career Growth and Financial Success”, PPG College of Arts and Science, 8th to 12th Jan 2024.
- National Online FDP on “Research Methodology: Ethics & Publications”, Theivanai Ammal College for Women, 22nd to 26th Jan 2024.
- International FDP on “Exploration of Mathematics in Emerging Fields”, PPG College of Arts and Science, 21st to 25th Feb 2024.

- International Virtual FDP on “Mathematics and its Application”, PSGR Krishnammal College for Women, 11th to 15th Mar 2024.
- FDP on “Concept of Pure and Applied Mathematics”, Parul University, 11th to 15th Mar 2024.
- FDP on “Exploring Real – world Applications in Mathematics”, Vels Institute of Science, Technology and Advanced Studies, 22nd to 26th Apr 2024.
- FDP on “Mathematical Foundation of Machine Learning”, Techno International New Town, 3rd to 7th Jun 2024.
- FDP on “Mathematical and Computational Aspects of Industry 4.0”, Haldia Institute of Technology, 3rd to 7th Jun 2024.
- FDP on “Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020”, 22nd to 26th Jul 2024.
- FDP on “Foundational Sciences: The Cornerstones of Engineering”, Sphoorthy Engineering College, 8th to 10th Aug 2024.
- FDP on “Exploring New Horizons in Mathematical Research”, V.O.Chidambaram College, 19th to 24th Aug 2024.
- National level FDP on “Writing Research Articles using LaTeX – Overleaf”, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya , 9th to 13th Sep 2024.
- International FDP on “Innovative Applications of Mathematics”, Bapatla Engineering College, 18th to 23rd Nov 2024.
- FDP on “Programme on Latex”, Meerut Institute of Engineering and Technology, 9th, 23rd, 30th Nov & 7th, 14th Dec 2024.
- National FDP on “Recent Development in Pure & Applied Mathematics”, IIST, 23rd to 28th Dec 2024.
- International FDP on “Futuristic Pathways in Technology and Computational Methodologies”, Mary Matha College of Arts and Science, 6th & 11th Jan 2025.
- FDP on “Future Trends in Machine Learning and Data Science – Driven IOT Applications”, Haldia Institute of Technology, 10th to 13th Mar & 17th Mar 2025.
- FDP on “Emerging Trends in Graph Theory”, SCMS School of Engineering and Technology, 21st to 25th Apr 2025.
- FDP on “AI in Healthcare Management”, PET Engineering College, 16th to 22th Jul 2025.

Participation in Webinar

- Talk on “Ramsey Theory: An Introduction Through Number Theoretic Problems”, IIT Bombay, 13th Nov 2021.
- Talk on “Number theory & its Applications”, SRMIST, 22nd & 23rd Dec 2021.
- Talk on “Application of Probability & Statistics in Defence”, SRMIST, 29th Jun 2022.
- Talk on “Ways to Handle Life’s Stressors”, SRMIST, 13th Aug 2022.
- Webinar on “Innovative Methods for Solving Real life Problems through Graphs”, SIMATS School of Engineering, 7th Dec 2022.

- Talk on “Rights of a Girl Child in India: Government Schemes”, SRMIST, 24th Jan 2023.
- An International Webinar on “The Application of Graph Theory”, Sri H. D. Devagowda Government First Grade College, 27th Jan 2023.
- Lecture series on “Nonlinear Dynamics and Applications”, Indian Institute Technology, 13th to 16th Feb 2023.
- Series of talks “Reaching beyond limits: Voice of the other”, SRMIST, 1st to 8th Mar 2023.
- International Webinar on “Plagiarism – Importance, Consequence and How to avoid”, Theivanai Ammal College for Women, 8th Mar 2023.
- National level Webinar on “World of PI”, S. S. C. College of Arts & Commerce, 14th Mar 2023.
- International Webinar on “Introduction to Normal Linear Spaces”, SRMIST, 3rd Apr 2023.
- Webinar on “Applications of Combinatorial Objects to Graph Labeling Problems”, Government Arts and Science College, 12th Apr 2023.
- Webinar on “Variations of Domination in Graph Theory”, Mohamed Sathak A. J. College of Engineering, 16th May 2023.
- Expert Talk on “Maxims of Teaching”, SRMIST, 4th Sep 2023.
- Webinar on “Applications of Complex Analysis”, Dr. M.G.R. Educational and Research Institute, 26th Sep 2023.
- Expert talk on “Mental Health, A Universal Human Right”, SRMIST, 10th Oct 2023.
- Webinar on “OER and AI Tools: Enhanced Learning and Research”, Nirmala College for Women, 30th Nov 2023.
- Series of lectures,” Infinite Insights: Unveiling Mathematical Marvels”, SRMIST, 18th to 21st Dec 2023.
- Online Technical Talk on “Convergence and Divergence of Series”, Dr. M.G.R. Educational and Research Institute, 8th Feb 2024.
- Webinar on “I – STEM – Empowering Academia/ Linking Researchers & Resources”, PSGR Krishnammal College for Women, 13th Feb 2024.
- Online Guest lecture on “QSPR Analysis of Medicinal drugs by involving Topological Indices”, Dr. M.G.R. Educational and Research Institute, 5th Mar 2024.
- Series of Talks “Reaching beyond limits: Voices of The Other”, SRMIST, 2nd to 7th Mar 2024.
- “Three Day Free Online Excel Webinar”, Institute to Improvement, 8th to 10th Mar 2024.
- National Webinar “Recent Progress in Mathematical Sciences”, Government Engineering College, 14th Mar 2024.
- Webinar on “Problem Solving in Linear Algebra”, Dr. M.G.R. Educational and Research Institute, 3rd May 2024.
- Talk on “Reaching the Success and Coping with the Failure”, SRMIST, 16th Aug 2024.
- Series of Lectures “Infinite Insights: Unveiling Mathematical Marvels”, SRMIST, 18th to 21st Dec 2024.