



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)
- “EXTENDED DISTANCE ENERGY FOR SOME GRAPHS AND COMMON FEVER DRUGS”, International Conference on Evolution in Pure and Applied Mathematics, **SPRINGER NATURE SWITZERLAND**, Pg 131 – 142, 2 Jan 2026. (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.
- Presented the paper titled “Minimum Dominating Extended Distance Energy for Some common drugs and its restrictions” in International Conference on “Recent Trends in Mathematics and Computer Science - 2025”, Auxilium College of Arts and Science for Women, 9th – 11st Oct 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.
- Online Seminar titled “Future Trends and Key Challenges in Mathematics”, Dr. M.G.R. Educational and Research Institute, 4th Dec 2025

Participation in Workshop

No of workshops attended: 17

- Workshop titled “LaTeX for Academic Writing”, Dr. M.G.R. Educational and Research Institute, 3rd & 4th Jun 2025.
- Two – Day Online Workshop on “Introduction to Statistics and Data Analysis”, Sikkim University, 24th & 25th Oct 2025.
- One Day Online Workshop on “AI – Driven Cybersecurity and Ethical Hacking Techniques”, PET Engineering College, 2nd Mar 2026.

Participation in Faculty Development Programme

No of FDPs attended: 46

- 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.
- FDP on “Artificial Intelligence: Global Trends, Technologies & Ethical Transformation”, Rajapalayam Raju’s College, 15th to 19th Sep 2025.
- FDP on “Innovative Applications of Mathematics in Real World Challenges”, NPSBCET, 15th to 19th Sep 2025.
- FDP on “Mathematics for Sustainable Development in Research”, St. Joseph’s College (Arts & Science), 24th to 29th Sep 2025.
- FDP on “Cloud Computing and GEN – AI”, Sri Ramakrishna College of Arts & Science, 15th to 19th Sep 2025.
- International FDP on “Innovative Applications of Mathematics”, Bapatla Engineering College, 17th to 22nd Nov 2025.
- FDP on “Digital Dimensions of Mathematics Tech – Savoy Tools for Global Educators”, 17th to 23rd Nov 2025.
- National Level FDP titled “Interdisciplinary Research Collaborations & Innovative Teaching Methods for Mathematics, DIGI Skill Development Centre & Training Institute, 24th to 30th Dec 2025.
- FDP on “Innovations in Pure Mathematics and their Pedagogical Implications”, V. O. Chidambaram College, 22nd to 27th Dec 2025.
- International FDP on “Next Generation Research: Integrating Mathematics with Artificial Intelligence”, Presidency University, 17th to 22nd Dec 2025.
- FDP on “Cyber Security Essentials for the Digital Era”, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, 22nd Jan 2026.
- International FDP titled “Exploring Emerging Trends and Future Directions of Pure & Applied Mathematics”, PSGR Krishnammal College for Women, 12th to 18th Feb 2026.
- National FDP on “Research Ethics and Data Analysis using AI Tools”, St. Joseph’s College, 17th to 23rd 2026.

Participation in Webinar

No of Webinars attended: 29

- 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.
- Mathematical Innovation Programme “Infinite Insights: Unveiling Marvels”, SRMIST, 11th & 12th Dec 2025.

Additional Responsibility

- NAAC Criteria 3.7.1 (Overall college)
- Association Incharge (2023 – 2024)
- ISO Incharge(2022 – 2023)