



Dr. Mamatha R M

Assistant Professor

Department of Mathematics

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1. ABOUT

Dr. Mamatha R M is an Assistant Professor in the Department of Mathematics, School of Engineering, Dayananda Sagar University, Harohalli Campus, Bengaluru, Karnataka, where she has been serving since June 2025. She completed her Ph.D. in Mathematics from Presidency University, Bengaluru, in 2023, with her doctoral research focusing on *Independent Domination in Interval Family, Circular-Arc Family and Cartesian Product of Graphs*. She completed her Bachelor's and Master's degrees from Bangalore University in 2015 and 2017, respectively. Her primary research expertise is in Graph Theory, particularly domination theory and its applications. She has published five research articles in reputed international journals and has presented papers at international conferences. She is also a patent holder. With 4.5 years of teaching experience, she has contributed extensively to mathematics education, particularly in supporting engineering students through mathematics and interdisciplinary applications. Her research interests include graph domination, graph algorithms, and graph-theoretic applications in emerging computational domains.

2. RESEARCH INTERESTS

- Graph Theory
- Image Processing

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics — Presidency University, 2023
- [M.Sc](#) in Mathematics — Bangalore University, 2017
- [B.Sc](#) in Physics, Mathematics, Computer Science — Bangalore University, 2015

4. PROFESSIONAL EXPERIENCE

- Assistant Professor — Dayananda Sagar University, Bengaluru [June 2025 – Present]
- Lecturer — St. Anne's first grade college for women, vasanthnagar, Bengaluru [Oct 2019 – Sept 2021]
- Guest Professor — Maharani's Science college for women, Palace Road, Bengaluru [June 2018 – Aug 2019]

5. RESEARCH HIGHLIGHTS

- Publications: 05
- Patents: 01

6. SELECTED PUBLICATIONS

- Mamatha R M., Ramalatha V., and Raviprakash J., “*Inverse Independent Domination in Interval Graphs*,” Journal of Algebraic Statistics, (2022): Vol 13(3), 1985-1994.
- Mamatha R M., Ramalatha V., and Raviprakash J., “*Fair Independent Domination in Join, Union and Lexicographic Product of Graphs*,” European Chemical Bulletin, (2023): Vol 12(10), 11978-11984.
- Raviprakash J., Ramalatha V., and Mamatha R M., “*Algorithms for finding a Neighbourhood Total Restrained Dominating set of Interval Graphs and Circular-arc Graphs*,” Journal of Algebraic Statistics, (2022): Vol 13(3), 1938-1947.
- Raviprakash J., Ramalatha V., and Mamatha R M., “*Neighbourhood connected and disconnected domination in Circular-arc graphs*,” European Chemical Bulletin, (2023): Vol 12(10), 11182-11190.
- Touqeer Ahmed., N. Shilpa., R M Mamatha., “*Study of uniqueness for Algebroid functions of finite order with pseudo deficiency on annuli*”, Asia Pacific journal of mathematics, (2025): Vol 12.

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=pF-XK8sAAAAJ&hl=en>
- ORCID: <https://orcid.org/0009-0005-2931-2109>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=60058513700>

8. CONTACT

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