

Faculty Profile



Dr. M. Priyadharshini M.Sc, M.Phil, Ph.D
Assistant Professor – (Mathematics) Science & Humanities

HIGHLIGHTS:

- Number of Journal Publications: 8
- H-Index: 2
- Patents Published: 1

PROFESSIONAL LINKS:

- Scopus ID: 57209617844
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57209617844>
- Google Scholar
ID: <https://scholar.google.com/citations?hl=en&user=w6QEPWkAAAAJ>
- Anna University Faculty ID: 2789751988
- AICTE Faculty ID: [1-10989489428](#)
- Anna University Supervisor ID: Nil
- LinkedIn: https://www.linkedin.com/in/dr-priyadharshini-muthukumar-57b858343?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app
- Orcid ID: <https://orcid.org/0000-0002-2674-859X>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: [10 Years](#).
- Industrial Experience: Nil

AREA OF SPECIALIZATION:

- Graph Theory
- Chemical Graph Theory

PATENTS PUBLISHED:

Title of the Invention: *ADAPTIVE ALGEBRA GRAPH LEARNING DEVICE*

Patent Application Number:
Patent Journal No462521-001.
Publication Date: 17.06.2025

Important Publications:

1. **M. Priyadharshini**, J. Senbagamalar, G. Sathishkumar, Numerical Solution of Stochastic SEIQR epidemic model with Differential Transformation Method, *Communications on Applied Nonlinear Analysis*, Vol. 32, No. 10s, **2025**.
<https://doi.org/10.52783/cana.v32.5488>.
2. E. Dhanalakshmi, P. Rajesh, S. Suresh, **M. Priyadharshini**, M. Prabhakaran, Green synthesis, spectroscopic investigation, quantum chemical and molecular docking studies of 3-methylisoxazolo [4,5-b]pyridine, *Journal of Molecular Structure*, Volume 1298, Part 2, **2024**, 136964. <https://doi.org/10.1016/j.molstruc.2023.136964>.
3. C. Prabhu, P. Rajesh, E. Dhanalakshmi, T. Gnanasambandan, **M. Priyadharshini**, Structure conformational, molecular docking and computational investigation of Methyl Linoleate, *Chemical Physics Impact*, Volume 7, **2023**, 100300.
<https://doi.org/10.1016/j.chphi.2023.100300>.
4. **M. Priyadharshini**, P. Kandan, E. Chandrasekaran, A. J. Kennedy, Revan Weighted PI Index on Some Product of Graphs, *TWMS Journal of Applied and Engineering Mathematics*, Vol 11, **2021**, 203-215.
<https://jaem.isikun.edu.tr/web/index.php/archive/109-vol11-special-issue/650>
5. **M. Priyadharshini**, P. Kandan and E. Chandrasekaran, Revan Weighted Szeged Index of Hierarchical Product and Join of Graphs, *Journal of Xi'an University of Architecture and Technology*, Vol 12, Issue 5, **2020**, 3355-3362.
6. **M. Priyadharshini**, P. Kandan and E. Chandrasekaran, Revan Weighted Szeged Index of some Graphs Operations, *Journal of Xi'an University of Architecture and Technology*, Vol 12, Issue 4, **2020**, 5645-5653.
7. P. Kandan, E. Chandrasekaran and **M. Priyadharshini**, Revan Weighted PI Index of Corona Product of Graphs, *International Journal of Research and Analytical Reviews*, 6(2), **2019**, 792-799. <http://www.ijrar.org/papers/IJRAR19K2954.pdf>
8. P. Kandan, E. Chandrasekaran and **M. Priyadharshini**, The Revan Weighted Szeged Index of Graphs, *International Journal of Emerging Technologies and Innovative Research*, Vol 5, (9), **2018**, 358-366.
<http://www.jetir.org/papers/JETIRA006381.pdf>