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Educational Details:

- **Ph.D. Mathematics** – SRM University – 2024
- **M.Sc. Mathematics** – Madras University - 2020
- **B.Sc. Mathematics** – Madras University – 2018

Research Interests: Rough set theory, rough graph theory

Publications:01

- K. Anitha, R. Aruna Devi, Mohammed Munir, Kottakaran Soopy Nisar, "Metric dimension of rough graphs," The International Journal of Nonlinear Analysis and Applications. (2021), Vol.12, 1793-1806. ISSN: 2008-6822. DOI: http://dx.doi.org/10.22075/ijnaa.2021.5891.
- R. Aruna Devi, and K. Anitha, "Construction of Rough Graph through Rough Membership Function," Mathematics and Statistics, (2022), Vol. 10(6) , 1344-1353. DOI: 10.13189/ms.2022.100622
- R. Aruna Devi, and K. Anitha, "Exploring Diverse Rough Neighborhoods Through Graphical Analysis," International Journal on Recent and Innovation Trends in Computing and Communication, (2023), Vol. 11(9), 2299-2306. ISSN: 2321-8169.
- R. Aruna Devi, and K. Anitha, "Exploring Metric Dimensions for Dimensionality Reduction and Navigation in Rough Graphs," Mathematical Modelling of Engineering Problems, (2024), Vol 11, No.4, 1037-1043, https://doi.org/10.18280/mmep.110421
- R. Aruna Devi, and K. Anitha, "Developing a framework for rough graphs," AIP Conference Proceedings, (2023), 2587, 100008, https://doi.org/10.1063/5.0150534.

- R. Aruna Devi, R. Nithya and K. Anitha, " Applications of Rough Sets in Graphs," Proceedings of Second National Virtual Conferencee on Recent Advances in Technology and Engineering, (2021), ISBN: 978–93–X90631–89-6 (Conference Proceedings)
- R. Aruna Devi, and K. Anitha, " Tensor Product on Rough Path Graph," Proceedings for the Multi-Disciplinary International Conference on Artificial Intelligence in E-Commerce, (2022), ISBN: 978-93-91977-04-7 (Conference Proceedings)

Academic Experience:

- SRM Institute of Science and Technology, Ramapuram, Assistant Professor, from 10.06.2025 to till date

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Other Details:

Achievements and Awards:

Certifications – NPTEL Courses

- NPTEL Online Certification – Graph Theory
- NPTEL Online Certification – Engineering Mathematics – I

Membership:

IAENG (International Association of Engineers)