FACULTY PROFILE

1. Name : Dr. Vinothini P.

2. Designation : Assistant Professor

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

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6. Teaching Experience : 1 year

7. Area of specialization : Fuzzy theory, Mathematical Modelling, Nonlinear Differential Equations, Mathematical Biology and Epidemiology.

8. Research Experience and Guidance

- Teaching Research Cum Assistant (TRA)- 2years

9. No. of Papers Published: 5

10. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: 13

11. No. of Books Published/Edited/Co-edited: 3

12. Membership in professional bodies (Descriptive)

- Membership in AARM (Academia for Advanced Research in Mathematics Society)

13. Honors & awards received (Descriptive)

- Raman Research Award from VIT University in 2020

14. No. of Online Courses completed (Minimum of 4 Weeks) - 1

PUBLICATIONS

Publications in Journals

- Vinothini, P., Kavitha, K., 'A Stage structure prey predator model using pentagonal fuzzy numbers and functional response', Baghdad Science Journal, ISSN: 2078 – 8665, 2024, Vol. 21, Issue 10, pp. 3234-3247. (Scopus, Web of Science, Impact Factor: 1.2).
- Vinothini, P., Kavitha, K., 'A study of two species model with a Holling-type response function using triangular fuzzy numbers', Journal of Applied Mathematics and Informatics, ISSN: 2734-1194, 2023, Vol. 41, Issue 4, pp.723 - 739. (Scopus, Web of Science, Impact Factor: 0.3).
- Vinothini, P., Kavitha, K., A review on fuzzy mathematical modeling in biology. Advances in Mathematics: Scientific Journal, ISSN: 1857-8365, 2020, Vol. 9, No. 8, pp. 5987 – 5996, (Scopus).
- Vinothini, P., Kavitha, K., Comparative analysis of fuzzy delay differential equation. Advances in Mathematics: Scientific Journal, ISSN: 1857 – 8365, 2020. Vol. 9, No. 8, pp. 6213 – 6220, (Scopus)
- Sujatha, L., Vinothini, P., and Jothilakshmi, R., 'Solving fuzzy transportation problem using zero point maximum allocation method', International Journal of Current Advanced Research, ISSN: 2319 – 6505, 2018, Vol.7, Issue 1, pp. 173-178. (SJIF: 6.614)

BOOKS AND PUBLICATIONS

- Vinothini, P., Kavitha, K., Dynamical behaviors of fuzzy prey-predator in SIR epidemic model in prey. Novel Developments in Computational Intelligence Systems and Their Applications in Multidisciplinary Areas, ISBN: 979-8-88697-547-5, 2023.pp. 93 – 104, (Scopus).