

FACULTY PROFILE

1. Name : Ms. Divya B.
2. Designation : Assistant Professor
PG and Research Department of Mathematics
3. Qualification : M.Sc., Ph.D.,
4. Mobile number : 9626061223
5. E-mail id : divyamat@auxiliumcollege.edu.in
6. Area of specialization : Mathematical Modelling, Nonlinear Differential Equations,
Mathematical Biology and Stability Analysis.

7. Positions Held in Auxilium :

- In Charge of Aptitude Achievers Club (2025 – 2026)
- Mentor for the students of M.Sc. Mathematics

8. Research Experience and Guidance :

- Teaching Cum Research Assistant (3 years)

9. No. of Papers Published : 5

10. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: 4

11. No. of Seminars/Workshops/Conferences organized: 1

12. Membership in professional bodies (Descriptive):

- Life Member in the AARM Society Sacred Heart College, Tiruppattur
- Sessional Member in the IMS Society, IIT, Kanpur

13. Honors & awards received (Descriptive):

- Award of Excellence for securing first place in University Exam (B.Sc Mathematics) in M.M.E.S Women's Arts and Science College, Melvisharam (2014)
- General Proficiency in Auxilium College, Katpadi (2017)
- Thiru K. Ayyakannu Gounder Scholarship awarded for outstanding performance in the activities of the Association of Mathematics in Auxilium College, Katpadi (2017)
- Raman Research Award in Vellore Institute of Technology, Vellore (2024 & 2025)
- Star Reader of the month of November (2025)

PUBLICATIONS

Publications in Journals

- Divya B., Kavitha K., "Analysis of Prey, Predator and Top Predator Model Involving Various Functional Responses", Baghdad Science Journal, 2025, Vol 22, Issue 2, pp: 632–645, <https://doi.org/10.21123/bsj.2024.10018>. (IF - 1.7)
- Divya B., Kavitha K., "Dynamical Behavior of Three Species Model with Holling Type Functional Response in the Presence of Logistic Growth", Journal of Applied Science and Engineering, 2024, Vol 28, Issue 1, pp: 101–108, [http://dx.doi.org/10.6180/jase.202501_28\(1\).0010](http://dx.doi.org/10.6180/jase.202501_28(1).0010). (IF - 1.3)
- Divya B., Kavitha K., "A Review On Mathematical Modelling in Biology and Medicine", Advances in Mathematics: Scientific Journal, 2020, Vol 9, Issue 8, pp: 5869 - 5879. <https://doi.org/10.37418/amsj.9.8.54>. (Scopus Indexed)

- Divya B., Kavitha K., “Comparison Analysis between Adomain Decomposition Method and Runge Kutta Fourth Order Method Using MATLAB”, *Advances in Mathematics: Scientific Journal*, 2020, Vol 9, Issue 8, pp: 5935–5943. <https://doi.org/10.37418/amsj.9.8.61>. (Scopus Indexed)
- Divya B., Kavitha K., “Stability Analysis of Stage–Structured Prey with Selective Harvesting in a Predator–Prey Model”, *Malaysian Journal of Mathematical Sciences*, 2025, Vol 19, Issue 4, pp: 1507 – 1524. <https://doi.org/10.47836/mjms.19.4.17> (IF- 1.3)

FDP’s / Seminars/ Workshops/ Webinars

- Attended the Capacity Building Programme for faculty members on the topic “English Language Skills for Effective Teaching” during 27.05.2025 – 29.05.2025 in Auxilium College, Autonomous.
- Attended the Building Teaching capacity Programme for faculty members on the topic “Strategies for Success” during 17.07.2025 – 18.07.2025 in Auxilium College, Autonomous.
- Attended the Capacity Building Programme for faculty members on the topic “Personalizing Education: Assesing Learner Types in Higher Education” during 26.09.2025 organized by IQAC in Auxilium College, Autonomous.
- Seven Day online Faculty Development Programme on “Empowering Research Integrity & Innovation” held from 27th October-2nd November, 2025 Organized by Committee for Research Ethics, Publication & IPR, Auxilium college.