

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. Teaching Experience : 1 year
7. Area of specialization : Mathematical Modelling, Nonlinear Differential Equations,
Mathematical Biology and Stability Analysis.
8. Positions Held in Auxilium :
- In Charge of Aptitude Achievers Club (2025 – till date)
 - Mentor for the students of M.Sc. Mathematics (2025 – till date)
 - Website In-charge (2026)
9. Research Experience and Guidance :
- Teaching Cum Research Assistant (3 years)
10. No. of Papers Published : 5
11. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: 4

12. No. of Seminars/Workshops/Conferences participated:14

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

13. Membership in professional bodies (Descriptive):

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

14. 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)

15. Any Other (Descriptive) :

- **Computer knowledge:** C, C++, Java, LATEX, MATLAB and R-Software

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., [Stability Analysis of Stage-Structured Prey with Selective Harvesting in a Predator-Prey Model](https://doi.org/10.47836/mjms.19.4.17)", [Malaysian Journal of Mathematical Sciences](https://doi.org/10.47836/mjms.19.4.17), 2025, Vol 19, Issue 4, pp: 1507–1524, <https://doi.org/10.47836/mjms.19.4.17> (IF 1.5).
- 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)

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: Assessing Learner Types in Higher Education” during 26.09.2025 organized by IQAC in Auxilium College, Autonomous.
- Participated in "A Seven- Day Online Faculty Development Programme on Empowering Research Integrity & Innovation" from 27.10.2025 - 02.11.2025 organized by The Committee for Research Ethics, Publication & IPR, Auxilium College(A), Vellore.
- Attended the Three-Day International Online Workshop on the topic " CANVA: Foundation to Mastery" from 29.11.2025 - 01.12.2025 through online mode organized by Global Research Training Center (GRTC).

- Participated in “National-Level Online Hands-on Workshop on MATLAB and SCILAB” from 15.12.2025 – 17.12.2025 through online mode organized by the Department of Mathematics, in collaboration with the Internal Quality Assurance Cell (IQAC) of Sonari College.
- Attended “A One-Week National Level Online Faculty Development Programme on LibreOffice Suite Impress 6.3 (Transforming Ideas into Engaging Presentations) was organized by IQAC, Auxilium College (Autonomous), Vellore, in association with Spoken Tutorial, Edu Pyramids, SINE, IIT Bombay, from 30th March to 8th April 2026.
- Participated in a One day Faculty Development Programme on “Interdisciplinary Research and Teaching Excellence”, organized by PG and Research Department of Mathematics, Sri S. Ramasamy Naidu Memorial College, Sattur and Pencilbitz held on 17th April 2026.
- Attended the One day workshop on “Mathematical Foundations of Computational Intelligence” organized by the Department of Mathematics, School of Advanced Sciences on 27.04.2026 at VIT, Vellore.
- Participated in a One day National Workshop on “Differential Equations and Their Applications” organized by Department of Mathematics of MDSD College, Ambala City on May, 4 2026.
- Attended a One week Faculty Development Program on “Mathematical Frontiers in Data Science and Artificial Intelligence” (Virtual Mode) Organized by the Department of Mathematics, School of Basic and Applied Sciences, Hindustan Institute of Technology & Science, Chennai from 18.5.26 – 23.5.26.
- Participated in the International webinar on "Well-Being in Higher Education for SDG Impact" Organized by Auxilium College (Autonomous) in collaboration with ISSFMA, Asia-Africa Node on 04.06.2026.
- Participated in a Six-Day International Faculty Development Programme (FDP) “Next- Generation Mathematical Sciences through Artificial Intelligence” from 29th June 2026 to 4th July 2026, organized by the Department of Mathematics, New Prince Shri Bhavani College of Engineering & Technology, Chennai 600 073.

- Attended five day faculty development programme on " Contemporary Advances in Mathematical Sciences and Artificial Intelligence " organized by department of Mathematics , School of Science and Management in association with Internal Quality Assurance Cell (IQAC) , St. Joseph University from 27.07.26 to 31.07.26.