

STAFF PROFILE

1. Name: Dr. Narmatha Christy P
2. Designation: Assistant Professor, Department of Chemistry.
3. Qualification: M.Sc., Ph.D.
4. Mobile number: 9944297346
5. E-mail id: narmathache@auxiliumcollege.edu.in
6. Area of specialization: Polymer Chemistry, Tissue Engineering, Material Chemistry
7. Best Paper Awards: 2
8. No. of Papers Published: 4
9. No. of Papers Presented in National/International Conferences/Seminars/Workshops: 2
10. No. of Conferences/Seminars/Webinars Participated: 8
11. No. of Patents: 1
12. No. of Book Chapters Published: 1
13. No. of certificate courses/Trainings Completed: 5
14. No. of M.Sc. Project guided: 1

Best Paper Awards

- **Received the Best Paper Award** for presenting the research paper entitled "**Nano Zinc Oxide and Nano Bioactive Glass Reinforced Chitosan/Poly(Vinyl Alcohol) Scaffolds for Bone Tissue Engineering Application**" at the **International Conference on Recent Advances in Biosciences and Technology (RABT-21)** organized by the Marian Centre for Advanced Research (MCAR), Research Division, St. Mary's College, Thrissur, Kerala, on **07.12.2021**.
- **Received the Best Paper Award** with cash prize **Rs.1000/-** in the **State-Level Intercollegiate Paper Presentation** organized by the **Research Ethics, Publication and IPR Committee**, Auxilium College (Autonomous), Vellore, on **20.10.2022**.

Paper Publications

- **Christy, P.N., Basha, S.K., Kumari, V.S. (2026). Bio-inspired chitosan/poly(vinyl alcohol)/nanobioactive glass/functionalized carbon nanotube scaffold for bone tissue engineering. *Silicon*,1-19.**
- **Christy, P.N., Basha, S.K., Kumari, V.S. (2022). Multifunctional organic and inorganic hybrid bionanocomposite of chitosan/poly(vinyl alcohol)/nanobioactive**

glass/nanocellulose for bone tissue engineering. *Journal of the Mechanical Behavior of Biomedical Materials*, 135, 105427.

- **Christy, P.N., Basha, S.K., Kumari, V.S. (2022). Nano zinc oxide and nano bioactive glass reinforced chitosan/poly(vinyl alcohol) scaffolds for bone tissue engineering application.** *Materials Today Communications*, 31, 103429.
- **Christy, P.N., Basha, S.K., Kumari, V.S., Bashir, A.K.H., Maaza, M., Kaviyarasu, K., et al. (2020). Biopolymeric nanocomposite scaffolds for bone tissue engineering applications–A review.** *Journal of Drug Delivery Science and Technology*, 55, 101452.

Paper Presentation

- Presented a **research paper** entitled "**In-Vitro Cytocompatibility Assessment and Physicochemical Behaviour of Nano Zinc Oxide-Modified Bionanocomposites**" at the **3rd International Conference on Emerging Nanomaterials in Biological, Chemical and Engineering Applications (INBCEA-2026)** organized by the Department of Chemistry, VELS Institute of Science, Technology & Advanced Studies (VISTAS), Chennai, on **12.03.2026 to 13.03.2026**.
- Presented a **research paper** entitled "**Design and Evaluation of Wheatgrass-Derived ZnO Nanoparticle Reinforced Sodium Alginate/PVA Nanocomposite for Wound Dressing Applications**" at the **3rd Indo-Canada International Conference on Advances in Research and Development (ICARD 2026)** organized by the All India Institute of Training and Education (AIITE), New Delhi, India, in association with Somrogen Canada Inc., Toronto, Canada, and the International Skill Development Council (ISDC), New Delhi, held in **hybrid mode** on **22.03.2026**.

Participation in Workshops/FDPs:

- Participated in the **One-Week National Level Online Faculty Development Programme on "LibreOffice Suite Impress 6.3"** organized by the Internal Quality Assurance Cell, Auxilium College (Autonomous), Vellore in association with Spoken Tutorial, EduPyramids, SINE, IIT Bombay from **30.03.2026 to 08.04.2026**.
- Participated in the **ACS Interactions: Scholarly Publishing and Ethical Research in the AI Era** organized by **CSIR–NIScPR** and the **American Chemical Society** from **09.04.2026 to 10.04.2026**.

- Participated in the **NEP 2020 Orientation & Sensitization Programme** under the **Malaviya Mission Teacher Training Programme (MM-TTP)** organized by the UGC–Malaviya Mission Teacher Training Centre (UGC-MMTTC), Bharathidasan University, Tiruchirappalli, Tamil Nadu from **11.03.2026 to 19.03.2026**, securing **Grade 'A'**.
- Participated in a **Hands-on Workshop on “Mendeley and Zotero for Researchers and Faculties,”** organized by Nexus – Academic Research & Industry, on **30.11.2025**.
- Participated in the **10-Day Online International Faculty Development Programme on "Transforming Research into Quality Publication: Tools, Techniques & Practices"** organized by the Department of Business Administration, Annamacharya University from **30.10.2025 to 08.11.2025**.
- Participated in the **Six-Day Online Faculty Development Programme on "Advances in Chemical Research and its Applications (ACRA'25)"** organized by the Department of Chemistry, Prathyusha Engineering College, Thiruvallur, Tamil Nadu from **27.10.2025 to 01.11.2025**.
- Participated in the **Two-Day Hands-on Training on "Electronic Structure Theory and its Applications"** organized by the Office of Research and Development and the School of Science and Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil Nadu, on **12.09.2025 and 13.09.2025**.
- Participated in the **Faculty Development Programme on "Bridging the Gap of Industry–Academia Interface in Chemistry Research & Innovation"** organized by the Department of Chemistry, School of Applied Sciences, REVA University, Bengaluru from **18.08.2025 to 22.08.2025**.

Patent Publication

- Patent application **“Hybrid Nanolipid–Polymer Nanoparticles for Oral Delivery of Insulin,”** Indian Patent Application No. 202641008792 A, published on **13.02.2026**.

Training / Certification

- **EBSCOhost – General Training** conducted by **EBSCO Information Services** at Auxilium College on **01.04.2026**.
- **LibreOffice Suite Impress 6.3 Training** organized at Auxilium College (Autonomous) with course material provided by **EduPyramids, SINE, IIT Bombay**, on **10.04.2026**, securing a **score of 97.5%**.

- **Chemistry of Nanomaterials – SWAYAM Online Course Certification** offered by the **University of Calicut**, completed in **May 2025**, securing a **consolidated score of 81%** in the 4-credit course.
- **GChemPaint Training** organized at **Auxilium College (Autonomous)** with course material provided by the **Spoken Tutorial Project, IIT Bombay**, and successfully completed on **15.06.2022**.
- **Fundamentals of Spectroscopy – NPTEL Online Certification** completed during **Jan–Apr 2020**, securing a **score of 88%** in the 3-credit course.

Project Guided for PG Student

- Design and Evaluation of wheatgrass derived ZnO nanoparticle reinforced sodium alginate/PVA nanocomposite for wound dressing applications – Sr. Nikita Saikia (March 2026).