

## FACULTY PROFILE



Dr. Scholastica Mary Vithiya B. currently serves as Associate Professor in the Department of Chemistry at Auxilium College (Autonomous), Vellore. She has 16 years of teaching experience. She qualified her UGC-CSIR NET in June 2000 and had qualified GATE in the years 1998 and 2000 with good percentile scores. She completed her Ph.D in the year 2012 from University of Madras. Her research interests include Screening of Medicinal Plants for Natural Products and Green Synthesis of Nanoparticles. She is currently guiding research scholars in the area of Green Synthesis of Nanoparticles, Ethical Committee Member – IRB, CMC, Vellore and Mentor – DST WOSA Project.

1. Name: Dr B Scholastica Mary Vithiya
2. Designation: Associate Professor
3. Qualification: M.Sc, M.Phil, NET, Ph.D.
4. Mobile number: 9791104284
5. E-mail id: schol2005@auxiliumcollege.edu.in
6. Teaching Experience: 16 years
7. Area of specialization: Organic Chemistry
8. Positions Held in Auxilium

1. IQAC Coordinator (2019-2021)
2. IQAC Core member (2010-2019)
3. Research Cell member (2008-2016)

4. Incharge of solid waste management (2014-2017)
5. Incharge of Chronicles (2014-2015)
6. Incharge of department association (2012-2014)
7. Incharge of department library (2011-2012)
8. College Council Member from 2018 onwards
9. BOS member of UG and PG Chemistry from 2008 onwards
10. Academic Council member from 2023 onwards
11. Innovative Initiative – Herbo Heal Hair Oil in 2021
12. PARAMARSH Coordinator from 2019 onwards
13. College Coordinator – India – Malaysia students’ Cultural exchange and Study Programme (2018)

9. Research Experience and Guidance: 12 years, Guide 4 M.Phil students and Guiding 2 Ph.D

10. Projects Completed / Ongoing: -

11. No. of Papers Published: 29

12. No.of Papers Presented in the National/International/Seminars/Workshops/Conferences:2

13. No. of Seminars/Workshops/Conferences organized: 22

14. No. of Books Published/Edited/Co-edited: NIL

15. Membership in professional bodies: TNSF (Tamilnadu Science Forum), NSF ( Nature Science Foundation)

16. Other bodies: RUSAC

17. Honours & awards received: -

1. School 1<sup>st</sup> Rank in HSC
2. Gold Medal & 1<sup>st</sup> Rank in B.Sc Chemistry

3. Gold Medal & 1<sup>st</sup> Rank in M.Sc Chemistry
4. Gold Medal & 1<sup>st</sup> Rank in M.Phil Chemistry
5. Sr. Ethelvina Distinguished Researcher Award for the Academic year 2021-2022
6. Best PARAMARSH Coordinator conferred by Nature Science Foundation, Coimbatore

18. No. of Online Courses completed (Minimum of 4 Weeks): 2

19. Any Other:

1. Resource person – 12 programmes
2. NET qualified (2000)
3. GATE qualified (1998 &2000)
4. Wrote science articles in tamil in the magazine 'Arumbu' for 2 years.
5. National FDP recognized by MHRD attended – 9
6. International FDP attended – 1
7. Prepared a Tamil- English Dictionary of Scientific Terms in Chemistry
8. Conferences and workshops attended – 38
9. Ethical Committee Member – Blue and Silver IRB, CMC Vellore
10. Mentor- DST-WOSA Project
11. GCP Certificate

## PUBLICATIONS

1. Augustine T., Charles C. Kanakam, **Scholastica Mary Vithiya B. and Ramkumar V.** '3-benzylidene-6-methoxychroman-4-one', Acta Crystallographica Section E, ISSN 2056-9890, 2008, Vol.E64, pp o2080.
2. Augustine T., Charles C. Kanakam, **Scholastica Mary Vithiya B. and Ramkumar V.** 'A facile entry into novel class of dispiroheterocyclic framework through 1,3-dipolarcycloaddition of azomethine ylides with 3-arylidine-4-chromanones as dipolarophiles', Tetrahedron Letters, ISSN 0040-4039, August 2009, Vol. 50, pp 5906-5910.
3. Augustine T., **Scholastica Mary Vithiya B.**, Ignacimuthu S and Ramkumar V. '3-Benzoyl-1\_-methyl-4\_-phenylspiro[acenaphthylene-1(2H),2- pyrrolidin]-2-one', Acta Crystallographica Section E, ISSN 2056-9890, 2010, Vol.E66, pp o3022.
4. Augustine Arul Prasad T., **Scholastica Mary Vithiya B** and Ignacimuthu S. 'A facile and regioselective synthesis of Spiro pyrrolidines and pyrrolizines through 1, 3 -dipolar cycloaddition Protocol' Der Pharma Chemica, ISSN 0975-413X, 2011, Vol.3, Issue 3, pp 293- 299.
5. **Scholastica Mary Vithiya B.**, Indumathi U. and Augustine Arul Prasad T. 'Synthesis, characterisation and biological activity of novel Spiroheterocycles from semicarbazones' Der Pharma Chemica, ISSN 0975-413X, 2012, Vol. 4, Issue 5, pp 1906-1912.
6. Shanmugapriya A., Hemalatha M., **Scholastica B** and Augustine Arul Prasad T. 'Adsorption studies of lead (II) and nickel (II) ions on chitosan-G-Polyacrylonitrile', Der Pharma Chemica, ISSN 0975-413X, 2013, Vol. 5, Issue 3, pp 141-155.
7. **Scholastica Mary Vithiya B.**, Shanmugapriya A.and Augustine Arul Prasad T. 'A highly regioselective synthesis of spiro [oxindole-chromanone] Pyrrolidines and pyrrolizines through 1,3-dipolarcycloaddition protocol' Der Pharma Chemica, ISSN 0975-413X, 2013, Vol. 5, Issue 5, pp 184-188.
8. Ramu P., Augustine Arul Prasad T., **Scholastica Mary Vithiya B** and Arul Antony S. 'Synthesis, characterization and biological activity of novel spiroheterocycles from isatin derivatives', Der Pharma Chemica, ISSN 0975-413X, 2014, Vol. 6, Issue 4, pp 30-36.
9. Imthiyaz Begum S.M. , Durga A., Regina Mary R., **Scholastica Mary Vithiya B** and Elumalai K.'Evaluation of Larvicidal activity of Tridax procumbens (Asteraceae) Leaf extracts against the Dengue vector , Aedes Aegypti and Bancroftian Filiriasis Vector, Culex quinquefasciatus', Indian Journal of Applied Research, ISSN 2249-555X, 2014, Vol. 4, Issue 8, pp 28-30.
10. Durga A., Imthiyaz Begum S.M., **Scholastica Mary Vithiya B.** and Regina Mary

- R.'Larvicidal activity of Wedelia chinensis(Asteraceae) plant extracts against Aedes Aegypti and Culex quinquefasciatus', Indian Journal of Applied Research, ISSN 2249-555X, 2014, Vol. 4, Issue 7, pp 51-56.
11. Ramu.P., Augustine Arul Prasad T., **Scholastica Mary Vithiya B** and Arul Antony S. 'Synthesis, characterization and biological activity of novel spiroheterocycles from oxindole derivatives', Der Pharmacia Lettre, ISSN 0975-5071, 2014, Vol. 6, Issue 5, pp 84-88.
  12. **Scholastica Mary Vithiya B.**, Suganya Kumaresh K and Augustine Arul Prasad T. 'An efficient Synthesis of dispiro heterocycles from Claisen –Schmidt Adduct through 1, 3-dipolar cycloaddition protocol and study on its Biological properties', Der Pharma Lettre, ISSN 0975-5071, 2015, Vol.7, Issue 8, pp 152-155.
  13. Augustine Arul Prasad T., **Scholastica Mary Vithiya B** and Varadharajan E. 'Green synthesis of dispiroheterocycles through a microwave induced solvent free approach and a study on its biological activity', Der Pharmacia Lettre, ISSN 0975-5071, 2016, Vol. 8, Issue 19, pp 311-316.
  14. Varadharajan E., Ramkumar V., **Scholastica M. V. B** and Arul Prasad T. Augustine '3-Benzylidene-1'-methyl-4'-phenyldispiro[cyclopentane-1,3'-pyrrolidine-2',1''-acenaphthene]-2,2''-dione', IUCrData, ISSN 2414-3146, 2017, Vol. 2, pp x170581.
  15. Bindu Thomas, Jayasri K., Sruthi V.P., Kavitha R., Aparna M., Augustine Arul Prasad T. and **Scholastica Mary Vithiya B** 'Synthesis of Silver Nanoparticles Impregnated Soap and its Study on Antibacterial Activity Using Green Principles' Int J S Res Sci. Engg. Tech. ISSN 2394-4099, Mar-Apr 2018, Vol. 4, Issue 4, pp 271-275.
  16. Bindu Thomas, **Scholastica Mary Vithiya B** and Augustine Arul Prasad T. 'Antibacterial and antioxidant effect of synthesized silver nanoparticles from aqueous leaf extract of Sechium edule', The Pharma Innovation Journal, ISSN 2277-7695, March 2018, Vol. 7, Issue 4, pp 42-46.
  17. Bindu Thomas, Augustine Arul Prasad T and **Scholastica Mary Vithiya B.** 'Evaluation of Antioxidant, Antibacterial and Photo catalytic Effect of Silver Nanoparticles from Methanolic Extract of Coleus Vettiveroids – an Endemic Species', J Nanostruct, ISSN 2251-788X, Spring 2018, Vol. 8, Issue 2, pp 179-190.
  18. Bindu Thomas, **Scholastica Mary Vithiya B.**, Augustine Arul Prasad T., Mohamed S. B., Maria Magdalene C., Kaviyarasu V and Maaza M. 'Antioxidant and Photocatalytic Activity of Aqueous Leaf Extract Mediated Green Synthesis of Silver

Nanoparticles Using *Passiflora edulis f. flavicarpa*' Journal of Nanoscience and Nanotechnology, ISSN 1533-4880, 2018, Vol. 18, pp 1–9.

19. Vinodhini S., **Scholastica Mary Vithiya B** and Augustine Arul Prasad T. 'Synthesis and characterization of palladium nanoparticles using leaf extracts', *Annals of R.S.C.B.*, ISSN:1583-6258, May 2021, Vol. 25, Issue 5, pp 913-923.
20. Jasmine Jacob, Augustine Arul Prasad T and **Scholastica Mary Vithiya B**. 'Green Synthesis, Characterization, Anti-bacterial, Anti -diabetic, Anti-Cancerous Activity of *Momordica Charantia* leaf extract mediated Cu-Ag nanoalloys', *Annals of R.S.C.B.*,ISSN:1583-6258, May 2021,Vol 25, Issue 6, pp 17895-17907.
21. Athisa Roselyn Maheo, **Scholastica Mary Vithiya B.**, Augustine Arul Prasad T., Tamizhdurai P and Mangesh V.L. 'Biosynthesis, characterization, biological and photo catalytic investigations of *Elsholtzia blanda* and chitosan mediated copper oxide nanoparticles, *Arabian Journal of chemistry*, ISSN 1878-5352, December 2021, Vol. 15, Issue 3, pp 103661
22. Athisa Roselyn Maheo, **Scholastica Mary Vithiya B** and Augustine Arul Prasad T. 'Biosynthesis and characterization of *Eupatorium adenophorum* and chitosan mediated Copper oxide nanoparticles and their antibacterial activity', *Results in Surfaces and Interfaces*, ISSN 2666-8459, March 2022 Vol. 6, pp 100066.
23. Vinodhini S., **Scholastica Mary Vithiya B and** Augustine Arul Prasad T. 'Green synthesis of silver nanoparticles by employing the *Allium fistulosum*, *Tabernaemontana divaricate* and *Basella alba* leaf extracts for antimicrobial applications', *Journal of King Saud University – Science*, ISSN 1018-3647, March 2022, Vol. 34, Issue 4, pp 101939.
24. Vinodini S., **Scholastica Mary Vithiya B** and Augustine Arul Prasad T. 'Green synthesis, characterization and antimicrobial activity of palladium nanoparticles : A review' *Journal of Applied Chemical Science International*, ISSN: 2395-3705, March 2022, Vol. 13, Issue 3, pp 13-25.
25. Vinodhini S., **Scholastica Mary Vithiya B** and Augustine Arul Prasad T. 'Green Synthesis of palladium nanoparticles using aqueous plant extracts and its biomedical applications', *Journal of King Saud University – Science*, ISSN 1018-3647, April 2022, Vol. 34, Issue 4, pp 102017.
26. Jasmine Jacob, Augustine Arul Prasad T., **Scholastica Mary Vithiya B.**, Bindhu Thomas and Vasanthi R. 'Evaluation of Cu-Ag Bimetallic Nanoalloys as Antibacterial,

- Antidiabetic, Anticancerous Drug Biosynthesized from Curcuma aromatica' Asian Journal of Chemistry, ISSN 1878-5352, April 2022, Vol. 34, No. 5, pp 1183-1188.
27. Jasmine Jacob, Augustine Arul Prasad T., **Scholastica Mary Vithiya B** and Rosaline Athisa M. 'Biosynthesis of Bimetallic Cu-Ag Nanocomposites and Evaluation of their Electrocatalytic, Antibacterial and Anti-Cancerous Activity', J Pure Appl Microbiol., ISSN 0973-7510, February 2022, Article Number: 7433.
  28. Athisa Roselyn Maheo, **Scholastica Mary Vithiya B** and Augustine Arul Prasad T. 'Biosynthesis of chitosan and eupatorium adenophorum mediated zinc oxide nanoparticles and their biological and photocatalytic activities', Materials Today: Proceedings, ISSN 0970-7077, 2022, Vol. 65, Issue 1, pp 298-312.
  29. Athisa Roselyn Maheo, **Scholastica Mary Vithiya B.**, Augustine Arul Prasad T., Mangesh V.L., Thamizhdurai Perumal, Wahidah H. Al-Qahtani and Mani Govindasamy 'Cytotoxic, antidiabetic and antioxidant study of biogenically improvised Elsholtzia blanda and Chitosan-Assisted zinc oxide nanoparticles', ACS Omega, ISSN 2470-1343, June 2023, Vol. 8, Issue12, pp 10954-10967.

## CONFERENCES AND WORKSHOPS

1. National seminar on 'New frontiers in chemistry' conducted by Department of Chemistry, Auxilium College at Auxilium College, Vellore – National- on 8<sup>th</sup> and 9<sup>th</sup> January, 2009.
2. National seminar on 'Micro galaxy- EUPRO'09' conducted by Department of Physics, Auxilium College at Auxilium College, Vellore- National- on 26<sup>th</sup> August, 2009.
3. Workshop on 'Computing Techniques for Sciences' conducted by Department of Chemistry, Stella Maris College at Stella Maris College, Chennai- National- on 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> January, 2010
4. Pre conference workshop on 'Indian herbal conference-2010 Chennai' conducted by Cholayil at Cholayil medicinal plants conservation park Chennai – National- on 12<sup>th</sup> February, 2010
5. State level RUSAC Seminar on ' Save The Earth' conducted by Department of Chemistry, Auxilium College at Auxilium College, Vellore- State- on 28<sup>th</sup> August, 2010
6. Workshop on "Advanced Analytical Techniques for Material Characterization" conducted by Department of Chemistry, SRM University at SRM University, Chennai – National- on 19<sup>th</sup> and 20<sup>th</sup> July, 2011.

7. State level seminar on ‘ Effective evaluation- practices and perspectives’ conducted By IQAC, Auxilium College at Auxilium College, Vellore – State- on 17<sup>th</sup> September, 2011
8. National seminar on ‘Recent trends in microbiology’ conducted by Department of Chemistry, Auxilium College at Auxilium College, Vellore – National- on 12<sup>th</sup> October, 2011
9. National seminar on ‘Recent advances in spectroscopy’ conducted by Department of Physics, Auxilium College at Auxilium College, Vellore- National- on 14<sup>th</sup> September, 2012
10. Workshop on ‘Microscale experiments in chemistry’ conducted by Department of Chemistry, Auxilium College at Auxilium College, Vellore – State- on 15<sup>th</sup> September, 2012
11. National Conference on ‘Recent advances in Application Oriented Chemistry’ conducted by Department of Chemistry, Dr.M.G.R. Educational and Research Institute University at Dr.M.G.R. Educational and Research Institute University Chennai- National- on 27<sup>th</sup> December, 2012.
12. National conference on ‘ New frontiers in organic chemistry and process research’ Conducted by Department of Chemistry, Stella Maris College at Stella Maris College, Chennai- National- on 24<sup>th</sup> and 25<sup>th</sup> January, 2013
13. Workshop on ‘ The role and importance of nanomaterials in energy and environmental sectors’ conducted by Department of Chemistry, Sacred Heart College at Sacred Heart College, Tirupattur – National- on 28<sup>th</sup> February, 2013
14. International conference on ‘Evolve as an expert in Life style management’, conducted by Department of Business administration, Auxilium College at Auxilium College ,Vellore – International- on 20<sup>th</sup> August, 2014
15. National conference on ‘Frontier Avenues in Chemistry and Environment – FACE’ conducted by Department of Chemistry, D.G.Vaishnav College at D.G.Vaishnav College Chennai – National – on 11<sup>th</sup> and 12<sup>th</sup> February, 2015
16. UGC –NAAC sponsored conference on ‘Journey towards Excellence’ conducted by IQAC, Auxilium College at Auxilium College, Vellore – National- on 9<sup>th</sup>, 10<sup>th</sup> and 11<sup>th</sup> February, 2017
17. International conference on ‘Energy, Environment and Advanced Materials for a Sustainable Future (ICEEAMSF -2017)’conducted by Department of Chemistry, Kongu Engineering College at Kongu Engineering College, Erode- International- on 23<sup>rd</sup> and 24<sup>th</sup> May, 2017
18. Capacity building programme on ‘International Opportunities for Academicians and young Professionals’conducted by Auxilium College, Vellore -National- on 8<sup>th</sup> December, 2017



19. UGC sponsored State Level Seminar on 'IQAC' conducted by Loyola College, Chennai – State- on 2<sup>nd</sup> March 2018
20. 23<sup>rd</sup> Triennial Conference on 'Revisioning Higher Education in India: Challenges and Strategies for Catholic Institutions' conducted by Xavier Board of Higher Education in India -National- on 13<sup>th</sup>, 14<sup>th</sup>, 15<sup>th</sup> September, 2019
21. National Seminar on 'Advances in Materials Chemistry' conducted by Department of Chemistry, Auxilium College at Auxilium College, Vellore -National- on 6<sup>th</sup> December, 2019
22. FDP on 'Young Supervisor on Plagiarism – Free Research Report Writing' conducted by Thiruvalluvar University, Vellore – Regional- on 8<sup>th</sup> February, 2020
23. National webinar on 'Taking research forward during the pandemic' conducted by Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai -National-on 20<sup>th</sup> May, 2020
24. International Webinar on 'Tools of chemistry to combat to combat COVID-19' conducted by Department of Chemistry, St. Francis college for women, Hyderabad Telengana- International- on 29<sup>th</sup> May, 2020
25. National Webinar on 'Peaceful application of radioisotopes' conducted by Department of Chemistry, DG Vaishnav College, Chennai – National- on 30<sup>th</sup> May 2020
26. National webinar on 'Biodiesel from Marine Algae' conducted by P.G. and research department of chemistry, VOC college, Thoothukudi -National- on 5<sup>th</sup> June 2020
27. National webinar on "Future of Examinations: Bloom's Taxonomy and Multiple Assessment Tools" conducted by G. T. N. Arts College (Autonomous), Dindigul, Tamilnadu – National- on 8<sup>th</sup> June 2020
28. National webinar on "Body language - The manifestation of unconscious " conducted by PG and research Department of psychology, Sacred Heart College, Tirupattur – National- on 12<sup>th</sup> June 2020
29. International FDP on "Evolving Best Teaching and Learning Practices in the Pandemic Era 2020." Conducted by Auxilium College, Vellore – International- on 15<sup>th</sup> to 21<sup>st</sup> June 2020
30. International webinar on " Advanced functional materials for biomedical and energy" conducted by Department of Chemistry, Loyola College, Chennai – International- on 24<sup>th</sup> and 25<sup>th</sup> June 2020
31. National Webinar on "Health and Teaching skill development" conducted by Department of Chemistry, Dr.Ambedkar Govt.Arts College, Chennai – National- on 1<sup>st</sup> July 2020
32. National Webinar on " Role of Incubation and Innovation in Higher Educational Institutions" conducted by P.G & Research Department of Social Work, Sacred heart College (Autonomous), Tirupattur and Don Bosco Institutions for Higher Education (DBIHE) in collaboration with VIT-TBI, Vellore – National- on 4<sup>th</sup> July 2020
33. National Webinar on "Nanomaterial for Biomedical Applications " conducted by Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore – National- on 15<sup>th</sup> July 2020
34. National Webinar on "Accessing e-Resources for Academic Activities" conducted by Library, Auxilium College, Vellore – National- on 4<sup>th</sup> August 2020

35. National Webinar on " ICT tools for effective assessment -Formative and Summative" conducted by DG Vaishnav College, Chennai – National- on 17<sup>th</sup> and 18<sup>th</sup> September, 2020
36. Online faculty development programme on Outcome Based Education conducted by IQAC, Auxilium College in association with IPSR solutions limited – College- November, 2021
37. IP Awareness training programme under national Intellectual Property Awareness Mission conducted by IPR Cell Auxilium College, Vellore – College- on 25<sup>th</sup> January, 2022.
38. Online National level workshop " Transformation through NAAC accreditation process for Higher Educational Institutions and Health Science Institutions" conducted by Institute of Academic Excellence in collaboration with Collegiate and Technical education department ,Telangana State – National- on 20<sup>th</sup> and 21<sup>st</sup> June, 2022.

#### ORIENTATION, REFRESHER PROGRAMMES AND FDP ATTENDED

1. Orientation Course ( General ) – Batch 100 conducted by HRDC, University of Madras at University of Madras – National- from 01<sup>st</sup> to 28<sup>th</sup> February 2011
2. Refresher Course in Environmental Science – Batch XIV conducted by HRDC, University of Madras at University of Madras – National- from 21<sup>st</sup> August to 10<sup>th</sup> September 2012
3. Refresher Course in Chemistry – Batch XXIV conducted by HRDC, University of Madras at University of Madras – National- from 04<sup>th</sup> to 24<sup>th</sup> September 2014
4. ARPIT course for Career Advancement Scheme (CAS) – **Online Refresher Course in Chemistry for Higher Education Faculty – A grade (84 %)** conducted by Sri Guru Tegh Bahadur Khalsa College, Delhi under SWAYAM ARPIT online course certification program – AICTE/ UGC - March 2019.
5. Refresher Course in Teacher Education conducted by UGC HRDC, Bharathidasan University- from 24<sup>th</sup> February to 9<sup>th</sup> March 2021
6. Two weeks FDP on " Managing Online classes and Co-creating MOOCs" Conducted by TLC Ramanujam College, University of Delhi, sponsored by MHRD under PMMMNTTT from 20<sup>th</sup> April to 6<sup>th</sup> May 2020
7. One week FDP on " Open source tools for research" Conducted by TLC Ramanujam College, University of Delhi, sponsored by MHRD under PMMMNTTT from 8<sup>th</sup> to 14<sup>th</sup> June 2020
8. One week FDP on GchemPaint and LibreOffice Suite Writer conducted by Spoken tutorial IIT Bombay -National- from 04<sup>th</sup> to 10<sup>th</sup> May 2020.
9. One week FDP on MOODLE conducted by Spoken tutorial IIT Bombay – National-from 17<sup>th</sup> to 24<sup>th</sup> April, 2020.