

1. Name	: R. MARY JAMILA
2. Designation	: ASSISTANT PROFESSOR
3. Qualification	: M.Sc., M.Phil., (Ph.D)
4. Mobile number	: 8825991435
5. E-mail id	: maryjamil@auxiliumcollege.edu.in
6. Teaching Experience	: 6 years
7. Area of specialization	: MATERIAL SCIENCE, NANOSCIENCE AND NANOTECHNOLOGY
8. Positions Held in Auxilium	: 1) Physics Association-Staff Incharge (2017-2020) 2) II PG Tutor for the academic year 2018-19, 2019-20, 2020-21, 2022-23. 3) Mentor
9. Research Experience and Guidance	: 8+ years of Research Experience; Guided 2 MSc Students
10. Projects Completed / Ongoing	: Nil
11. No. of Papers Published	: 2
12. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences	: 5
13. No. of Seminars/Workshops/Conferences Organized	: 4
14. No. of Books Published/Edited/Co-edited:	1
15. Membership in professional bodies (Descriptive)	: Nature Science Foundation (NSF), Coimbatore, Tamil Nadu, India
16. Other bodies (Descriptive)	: 1) Served as a Scrutiny committee member to monitor online teaching and conducting virtual labs during the pandemic year 2020 for PG Department of Physics – Shift I. 2) Served as a member in a board of study for designing OBE curriculum for PG Physics held in the year 2020. 3) Educative Community member, Auxilium College, Katpadi.

17. Honors & awards received (Descriptive) : 1) University Research Fellow (URF) in the Department of Nuclear Physics, University of Madras, Chennai, Feb 2009-2011.
- 2) Project Fellow (2011-2014) in National center for Nanoscience and Nanotechnology (NCNST) project sanctioned under MHRD special grants.
- 3) Travel award by Govt. of India through DST to carry out GIXRD experiment on MCX beamline at Elettra synchrotron Lab, Trieste, Italy. Local hospitality was sponsored by ELLETRA under INDO-MOU, March 2011.
18. No. of Online Courses completed (Minimum of 4 Weeks) : 1 -SWAYAM – NPTEL – Online certificate. Fundamentals of Spectroscopy
Duration : 12 weeks
Start date: 18th Jan 2021; End date: 9th Apr 2021
19. Any Other (Descriptive) : 1) One of the members in judging panel for a district level Science exhibition– “Veetokoru Vignaani 2022”, Organized by Puthiya thalaimurai (Tamil TV channel).
- 2) Served as a resource person for the Laboratory Course of the “Summer Training Programme in Physics (STPIP 2012)” during May 30 to June 20 2012 Organized by the Tamilnadu Academy of Sciences and Department of Nuclear Physics, University of Madras and sponsored by the Science City, Chennai.

PUBLICATIONS

Publications in Journals

1. **R. Mary Jamila**, V. Ravichandran, and V. Narayanan, ‘Microwave synthesis of Boron Nitride Nanostructures’, International Journal of Innovative Research in Science & Engineering, ISSN 2347-3207, 2014, Vol. 2, pp. 777-780.

2. S Reena Devi; G Kaviya; K.C. Dhurga Shree; **R. Mary Jamila**; P. Rekha; G. Rajasekar
Crystal growth, structural, optical, laser damage threshold and nonlinear optical
properties of Piperazinium citrate single crystal". Journal of Optics,
<https://doi.org/10.1007/s12596-023-01497-z>.

Book Publication

1. Advanced Practical Physics (For MSc., Students), ISBN: 978-93-868907-1-9, Bharathi
Book House, Vellore.

Publications in Proceedings

1. "Fourth International Conference on Material Science (ICMA 2024)", Department of
Physics, Tirupura University (A Central University), Tirupura. 31 Jan -2nd Feb 2024. A
study on Hexagonal Boron Nitride (h-BN) coated Fiber Optic VOC sensor for
Enhanced Indoor Air Quality and Workplace Safety. (Poster)
2. "National Conference on Advanced Materials and Applications (NCAMA 2018)",
Department of Physics, Auxilium College (Autonomous), Vellore. Electrodeposition
of Boron Nitride Nanoparticles and their Characterizations. (Oral)
3. "International Conference on Advances in New materials (ICAN 2014)" Department
of Inorganic Chemistry, University of Madras, Chennai. June 20-21, 2014. Microwave
synthesis of Boron Nitride Nanostructures. (Poster)
4. "International Conference on Advances in New materials (ICAN 2014)" Department
of Inorganic Chemistry, University of Madras, Chennai. June 20-21, 2014. Synthesis
of Boron Nitride nanostructures and Characterizations. (Oral)
5. "International Conference and workshop on Nanostructured Ceramics and other
Nanomaterials (ICWNCN 2012)" Department of Physics and Astrophysics, University
of Delhi, Delhi, March 13-16, 2012. Boron Nitride Nanofilms by Electro-deposition
and Characterizations. (Poster)

FDP's/ Seminars/ Workshops/Webinars

1. Webinar on “Implementation of NEP 2020 at HEIs – Pathways and Challenges” organized by the IQAC, SR University, Warangal, Telangana, India on 29th February 2024.
2. International Virtual Conference on “Emerging Technologies in Material Science” (ICETM-2024), Organized by PG & Research Centre of Physics in collaboration with Consultancy cell on 22nd February 2024.
3. International Conference (Online mode) on “Functional Nanomaterials and Nanodevices (ICFNN 2023)” Organized by Faculty of Allied Health Sciences, Chettinad Academy of Research and Education, Kelambakkam, Tamilnadu, India on 26th September 2023.
4. National intellectual property awareness mission organized by Intellectual Property Office, India IPR at Auxilium College, Vellore 16th Sep 2023.
5. National webinar on “Publish and Progress” organized by IQAC, the committee for research and Ethics, Publication and IPR & Library, at Auxilium College, Vellore, 26th August, 2023.
6. National Webinar on “Applications of Physics in Medicine” jointly organized by PG & Research Department of Physics, Auxilium College (Autonomous), Vellore and Department of Physics, Little Flower Degree College, Hyderabad on 22 August 2023.
7. National webinar series on Astrophysics entitled, “Exoplanets: Distinct worlds from the Solar System” Organized by the Division of Physical Sciences, Coimbatore on 4th August 2023.
8. National webinar on Green Campus Initiatives towards sustainable development, Organized by Internal Quality Assurance Cell (IQAC), Auxilium College (Autonomous), Gandhi Nagar, Vellore on 29th July 2023.
9. 2nd National conference on “Advanced Materials and Applications” Organized by the Department of Physics, Auxilium College (Autonomous), Vellore in collaboration with Indian Spectrophysics Association (ISPA) on 13 & 14th October 2022.
10. Online National level Faculty Development Programme on “Advanced Computational and Experimental Research in Physics - 2022” organized by Department of physics, SRM Institute of Science and Technology” Ramapuram Campus, Chennai, 20-27 June 2022.

11. National level Faculty Development Programme on “LibreOffice Suite Calc 6.3” Organized by Auxilium College (Autonomous) with course material provided by Spoken Tutorial Project, IIT Bombay, 26th May to 10th June 2022.
12. National level Faculty Development Programme on “LibreOffice Suite Writer 6.3” Organized by Auxilium College (Autonomous) with course material provided by Spoken Tutorial Project, IIT Bombay, 26th May to 10th June 2022.
13. National level Faculty Development Programme on “LibreOffice Suite impress 6.3” Organized by Auxilium College (Autonomous) with course material provided by Spoken Tutorial Project, IIT Bombay, 26th May to 10th June 2022.
14. National level training program under National Intellectual property awareness mission, organized by Intellectual property office, India on February 9, 2022.
15. International webinar on “Sensors and Applications” organized by the department of Physics, Auxilium College (Autonomous), Vellore, 22-23 July 2021.
16. Completed the 12 weeks course on “Fundamentals of Spectroscopy” in SWAYAM – NPTEL – Online certificate, April 2021.
17. National webinar on “Modelling of Novel Materials through Atomistic Molecular Dynamics Simulations” Organized by Department of Physics, Auxilium College (Autonomous), Vellore on 11th March 2021.
18. National level FDP on “Research Trends in Electronics & Physics” Organized by Department of Physics & Electronics, Little Flower Degree College, Uppal, Hyderabad on 27th Jan to 1st Feb 2021.
19. National level online FDP on Research Trends in Physics and Electronics, 27/01/2021 to 01/02/2021.
20. International Virtual Conference on “Advanced Materials for Energy and Environmental Applications (ICAMEEA – 2020)”, organized by Bharathidasan University, Tiruchirappalli— 620 024, Tamil Nadu, India. 26-27 June 2020
21. International Webinar on “Advanced Functional Materials For Biomedical & Energy”, organized by Department of Chemistry, Loyola College (Autonomous), Chennai, Tamilnadu, India, 24th & 25th June 2020.
22. International Webinar on “Nanotechnology in Aerospace”, organized by Auxilium College (Autonomous), Vellore, Tamilnadu, India, 22 June 2020.

23. International FDP on “Academic Writing and Opportunity for The Publication”, organized by Department of Commerce, SNS Rajalakshmi College of Arts and Science (Autonomous), Coimbatore, Taminadu, India, 17th June 2020.
24. International FDP on “Evolving Best Teaching and Learning Practices in the Pandemic Era 2020”, Organized by Auxilium College (Autonomous), Vellore, Tamilnadu, India, 15-21 June 2020.
25. International FDP on “Materials Technology and Research Perspectives in Physics”, Organized by PG and Research Department of Physics, Marudhar Kesari Jain College for Women, Vaniyambadi, Tamilnadu, India, 15-17 June 2020.
26. National level Virtual Conference on “Novel Materials, Characterization and Applications”, organized by Department of Physics, Auxilium College (Autonomous), Vellore, Tamilnadu, India, 9-10 June 2020.
27. National Workshop on “Creating Virtual Classroom using Google Tools”, organized by Formlelo, New Delhi, India, 6 June 2020.
28. National webinar on “New Era Teaching Pedagogy: Challenges and Opportunities”, organized by St. Xavier’s College, Jaipur, India, 5th June 2020.
29. National Webinar on “Dating Sand Using Luminescence”, organized by Department of Physics, Voorhees College, Vellore. 02nd June 2020
30. National Webinar on “Obstacles and Guidelines for Publishing Papers in Journals”, organized by PRUCAS Library, Pappireddipatti, Dharmapuri, Tamilnadu, India, 23 May 2020.
31. International level Online Course on “Design Thinking In Global Education Contemporary Teaching And Learning Techniques” (Key Takeaways From The Singapore Model), Organized by Dr. Mustafa Izzudin, Senior International Affairs Analyst, Solaris Strategies, Singapore Senior Lecture at National University of Singapore (NUS), 23-25 May 2020.
32. 2nd International Conference on Recent Advancement in Materials Science, Organized by PG and Research Department of Physics, Muthurangam Govt. Arts college (Autonomous), Vellore – 632002, Tamil Nadu, India, 12th March 2020.
33. National seminar on “Advanced in Material chemistry” Organized by PG and Research Department of Chemistry, Auxilium College (Autonomous), Vellore on 6th December 2019.

34. FDP on "Enriching & Enhancing the Effectiveness of Teaching using 21st century skill sets" organized by The Haskalah Academy, Chennai, 5-7/06/2019
35. The National Conference on 'Advanced Materials and applications' (NCAMA-2018) Organized by Department of Physics, Auxilium College (Autonomous), Vellore on 7th September 2018.
36. State level Inter-collegiate seminar on "Nanotechnology and its Applications" Organized by Department of Physics, Auxilium College (Autonomous), Vellore on 14th September 2017.
37. "International workshop on Advanced Functional Nanomaterials" Centre for Nanoscience and Nanotechnology, Crystal Growth Center & Centre for International affairs, Anna University, Chennai. Feb 21-24, 2011.
38. Training Course on "Corrosion Prevention and Control" organized by ASM international Chennai chapter, IC & SR, IIT Madras, February 14 & 15, 2011.
39. "National Workshop on Theory and Practice of X- Ray Diffraction Techniques (TPXRDT)" – 2009 School of Physics, Alagappa University, Karaikudi, Tamil Nadu. July 13-17, 2009.
40. Workshop on "PATENT AWARENESS" organized by the Patent Information Cell, the University of Madras in association with Tamil Nadu State Council for Science & Technology, Guindy Campus, University of Madras, Chennai. 17th April 2009.