Name	**Dr. M. JOSEPHINE GLADIYA**
Qualification	M.Sc., Ph.D.,
Designation	Assistant Professor
Year of Joining	16.06.2025
Department	Physics
Specialization	Crystal growth
Email id	joegladiya219803@gmail.com josephinegladiya21@gmail.com



Participation / Presentation in Seminars/Workshops/FDP

Date	Paper Presented/ Participated	Title of the Paper	Organized By	Workshop/ Seminar/ FDP	Type
27.02.2020 - 28.02.2020	Presented	The Instabilities driven in Electron density and Temperature of the Solar wind over the intense Solar Activity	International conference on Recent trends in Multidisciplinary Research	Conference	International
01.03.2022	Presented	Growth and Characterization of L threonine maleic acid crystals	International conference on Emerging materials and its Applications – St. Xavier's College (Autonomous), Palayamkottai.	Conference	International
29.09.2022 – 30.09.2022	Presented	Synthesis and Mechanical studies of L threonine maleic acid single crystal	International conference on Advanced materials and their Applications – V.O.Chidambaram College, Thoothukudi	Conference	International
03.02.2023	Presented	Growth of a Gamma glycine single crystals and its	DST Curie Sponsored National conference on	Conference	National

		Characterization	Recent developments in Effective materials – Sarah Tucker college (Autonomous), Tirunelveli.		
24.02.2023	Presented	XRD, Z Scan and AFM study of L threonine maleic acid single crystals	State level seminar on Material Science – Aditanar College of Arts and Science, Tiruchendur.	Seminar	National
11.05.2023 - 12.05.2023	Presented	Spectral, NLO and Antibacterial studies of Gamma Glycine single crystals	CSIR Sponsored National workshop on Applied Physics over a current scenario – Malankara Catholic College, Mariagiri, Kanyakumari.	Workshop	National
01.09.2023	Presented	Growth and characterization of Pyridine doped L threonine crystals	International conference on Technologically Important materials – Aditanar College of Arts and Science, Tiruchendur.	Conference	Internati onal
14.12.2023 – 15.12.2023	Presented	Spectral, functional and Optical properties of Lithium guanidinium sulphate crystals	International conference on Advanced materials and their Applications – V.O.Chidambaram College, Thoothukudi	Conference	Internati onal
02.02.2024	Presented	Growth and characterization of Ammonium Guanidinium Sulphate single crystal	DST Curie Sponsored National conference on Recent developments in Effective materials – Sarah Tucker college (Autonomous), Tirunelveli.	Conference	National
16.02.2024	Presented	Spectral, functional and Optical properties of a glycine based	International conference on Recent	Conference	Internati onal

		single crystal	Advancements in material science and nuclear energy research – Government college of Arts and Science, Kovilpatti, Thoothukudi.		
22.03.2024 – 23.02.2024	Presented	Structural, Optical, thermal and Non linear optical studies of Tetra Glycine Ammonium Sulphate crystals	International Conference on Prospective of Multifunctional materials – St. Alphonsa College of Arts and Science, Karinkal, Kanyakumari.	Conference	Internati onal
18.02.2025 - 19.02.2025	Presented	A new organic single crystal of Pyridine doped L threonine crystals	International Conference Cum workshop on The Techniques of Nanomaterial Characterization, Hydrogen energy and fuel cells - St. Xavier's College (Autonomous), Palayamkottai.	Conference cum Workshop	Internati onal
12.12.2024	Participated	-	Self Enhancement and Empowerment programme on Enhancing Research Productivity, Empactful publications & Projects, St. Xavier's College (A), Palayamkottai	FDP	National
22.1.2021	Participated	-	Seminar on Scholar Tips for all Research Scholars by IQAC, St. Xavier's College (A), Palayamkottai	Seminar	National
4.4.2022	Participated	-	Recent Trends in Material sciences by APC Mahalaxmi	Seminar	National

			College for Women, Thoothukudi.		
31.3.2022	Participated	-	State level Seminar on Crystal growth and Nanoscience by Aditanar College of Arts and Science, Tiruchendur	Seminar	National
19.2.2024	Participated	-	A discourse on Opportunities and approaches to avail higher education research scholarship /fellowship in India and overseas by St. Xavier's College (A), Palayamkottai.	Discourse	National
25.8.2023	Participated	-	Workshop on Research publications in Scopus indexed journals by St. Xavier's College (A), Palayamkottai.	Workshop	National
28.10.2022	Participated	-	Awareness programme on Intellectual Property rights (IPR) under National Intellectual property Awareness mission (NIPAM) by IQAC, St. Xavier's College (A), Palayamkottai.	Seminar	National
3.3.2021 – 4.3.2021	Participated	-	International webinar on Advanced Materials – IWAM 2021, Department of physics, St. Joseph's College (Autonomous), Tiruchirappalli	Conference	Internati onal
30.6.2021	Participated	-	State level webinar on Research writing and publication		

			organized by the centre of Research, Sadakathullah appa college (Autonomous), Rahmath Nagar, Tirunelveli		
14.6.2021	Participated	-	Webinar on Applied Quantum mechanics organized by PG and Research Department of Physics, Sadakathullah appa college (Autonomous), Rahmath Nagar, Tirunelveli	Webinar	National
12.6.2021	Participated	-	Webinar entitled Introduction to Nanotechnology organized by Department of Physics, Sadakathullah appa college (Autonomous), Rahmath Nagar, Tirunelveli	Webinar	National
7.6.2021	Participated	-	One day national level faculty development programme on professional guidance on writing research articles and applying for funded projects organized by Sarah Tucker college (Autonomous), Tirunelveli -7	FDP	National
4.9.2021	Participated	-	International Webinar on Advanced scanning and transmission electron microscopy	Webinar	Internati onal

			2021 (i- WASTEM) organized by Universiti Tunku Abdul Rahman, Kampur, Malaysia		
7.9.2021	Participated	-	National webinar on nanotechnology: an advanced science and technology for recent developments in various applications organized by the PG and Research Department of Physics jointly with internal quality assurance cell of The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli,	Webinar	National
28.8.2021	Participated	-	National webinar on optical quality crystals for device fabrication organized by the PG and Research Department of physics, Pachaiyappa's College, Chennai-600 030	Webinar	National
24.8.2021	Participated	-	Advanced Materials - webinar series 2021 (Event 1): Superconductors, Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli	Webinar	National
6.9.2021	Participated	-	National level webinar on crystal growth aspects and its characterization	Webinar	National

			organized by PG and Research Department of Physics jointly with internal quality assurance cell of The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli,		
26.8.2021	Participated	-	Symposium on Recent advances in smart sensors organized by department of physics, SRM institute of science and technology, Ramapuram campus, Chennai – 600 089	Symposium	Internati onal
19.8.2021	Participated	-	One day webinar on light matter interactions and characterization techniques organized by the Department of Physics, St. Xavier's college (Autonomous), Palayamkottai, Tirunelveli	Webinar	National
16.8.2021	Participated	-	National webinar on the dynamic sun organized by the Research Department of Physics, St. Xavier's college (Autonomous), Palayamkottai, Tiunelveli	Webinar	National
6.8.2021	Participated	-	Physics Quiz- 2021, an online event organized by Department of	Quiz	National

			Physics, B.S Abdur Rahman Crescent institute of science and technology, Chennai – 600 048		
19.6.2021	Participated	-	One day webinar on introduction to nonlinear optical crystal and its applications organized by the Deparment of Physics, K.S Rangasamy college of technology, Tiruchengode	Webinar	National
31.3.2022	Participated	-	State level seminar on crystal growth and nanoscience organized by the Department of Physics, Aditanar college of arts and science, Tiruchendur	Seminar	National
4.4.2022	Participated	-	State level seminar on recent trends in Material sciences organized by the department of Physics, APC Mahalaxmi college for women, Thoothukudi	Seminar	National
10.1.2022	Participated	-	Physical sciences mock CSIR – UGC SET/NET Examinations jointly conducted by Fine arts club and Heritage cell of Government arts college (autonomous), salem – 636 007		
14.3.2022	Participated	-	National webinar on recent advancements in	Webinar	National

			material science under DBT star college scheme organized by the department of physics, V.V. Vanniaperumal college for women, Virudhunagar		
2.3.2022	Participated	-	Special talk on X ray diffraction: Basics to advance organized by SRM TRP Engineering college		
16.3.2021	Participated	-	International webinar on Nanostructures for next generation devices organized by the Department of Physics, Loyola college.	Webinar	International
19.6.2020	Participated	-	Webinar Series: Experience the uncommon –''The Journey within: Know yourself & Know the worth, IQAC, St. Joseph's College (A), Tiruchirappalli	Webinar	National
26.6.2020	Participated	-	Webinar Series: Experience the uncommon – 'You become what you think – Attitude & Altitude', IQAC, St. Joseph's College (A), Tiruchirappalli	Webinar	National
15.7.2020	Participated	-	Frontiers in Nanotechnology and Applications (FINA- 2020), St. Xavier's College (A), Palayamkottai	Seminar	National
22.6.2020	Participated	-	Webinar Series: Experience the	Webinar	National

			uncommon – 'Higher, Deeper & Beyond- Art of Mature Relationship', IQAC, St. Joseph's College (A), Tiruchirappalli		
20.6.2020	Participated	-	Entrepreneurship and Patent possibilities, organized by PG and Research Department of English, St. Mary's College (A), Thoothukudi	Seminar	National
21.7.2020	Participated	-	E- Quiz on Digital Electronics, organized by the Department of Electronics & Communication Engineering, Government Polytechnic College, Ambalakkaranpatti, Melur		
2.6.2020	Participated	-	Invisible Scholars: Students with learning disabilities & Identification of students with Learning disabilities, IQAC, St. Mary's College (A), Thoothukudi	FDP	Internati onal
24.7.2020	Participated	-	Optical Nano biosensors and Microfluidics in X-ray Spectroscopy organized by Research Dept of Physics, St. Xavier's Collge (A), Palayamkottai	Webinar	Internati onal

6.8.2020	Participated	-	International webinar on Quantum materials and nanoparticles for advanced applications, Department of Physics, Kamaraj College, Thoothukudi	Webinar	Internati onal
	Participated	-	National webinar on Glass ceiling effect in Indian Women's writing, Research Dept of English, St. Mary's College (A), Thoothukudi	webinar	National
31.7.2020 – 1.8.2020	Participated	-	Two days online workshop on Research tools and techniques for materials characterization, organized by the PG and Research Department of Physics and IQAC of Madurai Diraviyam Thayumanavar Hindu college, Tirunelveli	workshop	National
3.6.2020	Participated	-	Online quiz on Environmental Microbes to mankind organized by the Department of Microbiology, St. Mary's College (A), Thoothukudi		
12.6.2020	Participated	-	Webinar on Journey towards wave mechanics organized by the Department of Physics, B.S. Abdur Rahman Crescent	Webinar	National

			Institute of Science and Technology, Chennai		
10.7.2020	Participated	-	National level quiz on light and sound organized by PG and Research Department of Physics, Sacred Heart college (A), Tirupattur		
22.8.2020 – 23.8.2020	Participated	-	National level E-Quiz on nobel prize organized by PG and Research Department of Physics and IQAC, Madurai Diraviyam Thayumanavar College, Tirunelveli		
7.6.2020 – 12.6.2020	Participated	-	Online certificate course on Patent searching for beginners organized by Department of Environmental science, Department of Biotechnology of Sri Ramakrishna Institute of computer education and Applied sciences, Surat and Operant Pharmacy Federation	Online certificate course	National
6.6.2020 – 10.6.2020	Participated	-	Online quiz programme on Physics Everywhere organized by Government Arts and Science college for Women, Barugur, Krishnagiri		
15.6.2020 – 17.6.2020	Participated	-	Three days national webinar on Value of Health care in	Webinar	National

			current lifestyle organized by Madurai Kamaraj university and Annammal college of education for women, Thoothukudi		
2.7.2020 – 3.7.2020	Participated	-	E-Quiz on Physics and our world organized by Indian Academy Degree college (A), Bengaluru		
12.6.2020	Participated	-	Webinar on 'What next?' organized by IQAC, VOC college, Thoothukudi	Webinar	National
19.8.2020 – 20.8.2020	Participated	-	National level E-Quiz on Solar and Photovoltaics, organized by Department of Physics, Madurai Diraviyam Thayumanavar College, Tirunelveli		
23.6.2020	Participated	-	National webinar on 'Publishing Quality research in High impact Journals- National and International organized by Guru Nanak Khalsa College of Arts, Science & Commerce, Matunga, Mumbai	Webinar	National
25.6.2020	Participated	-	International webinar on 'Thin film deposition techniques and its applications' organized by Research Department of	webinar	Internati onal

			Physics and IQAC, Madurai Diraviyam Thayumanavar College, Tirunelveli		
26.5.2020	Participated	-	Online quiz organized by the Department of Physics, St. Mary's College (A), Thoothukudi		
17.6.2020 – 20.6.2020	Participated	-	Online quiz on 'Basics of Renewable energy' organized by the Department of Physics, R.K Valley, Rajiv Gandhi University of Knowledgeable Technologies, Andhra pradesh		
13.9.2021 – 15.9.2021	Participated	-	International conference on Solution grown crystals and their useful applications (SGCA-2021) organized by SSN Research centre, SSN Institutions (A), in associaton with Indian Association for Crystal growth (IACG)	Conference	Internati onal
8.3.2021 – 12.3.2021	Participated	-	FDP on Recent trends in Advanced Materials Science and Engineering Technology organized by Department of Chemistry, Chaitanya Bharathi Institute of Technology(A), Telangana	FDP	National

28.8.2021	Participated	-	National webinar on 'Optical quality crystals for Device fabrication' organized by the PG & Research Department of Physics, Pachaiyappa's College, Chennai	Webinar	National
20.12.2021	Participated	-	Advanced Materials- Webinar Series (Event 5): Novel Magnetic materials organized by Department of Physics, St. Joseph's College (A), Tiruchirappalli	webinar	National
20.9.2021	Participated	-	Advanced Materials- Webinar Series (Event 2): Materials Characterization using Non destructive testing (NDT), organized by Department of Physics, St. Joseph's College (A), Tiruchirappalli	Webinar	National
21.10.2021	Participated	-	Advanced Materials- Webinar Series (Event 3): Recent trends in Laser Materials processing organized by Department of Physics, St. Joseph's College (A), Tiruchirappalli	Webinar	National
16.5.2022 – 21.5.2022	Participated	-	Indian Summer School on Crystal growth (ISSCG-2022) organized by SSN Research Centre, SSN	Conference	International

			College of Engineering, Chennai		
7.2.2022 – 8.2.2022	Participated	-	INUP-i2i Familiarization workshop on Nanofabrication technologies, held at IIT Delhi	Workshop	International
3.11.2022	Participated	-	IP Awareness / Training program under National Intellectual property awareness mission organized by Government of India, Ministry of Commerce and Industry, Intellectual property office, India	Awareness programme	National
12.10.2022 – 14.10.2022	Participated	-	Three days workshop on Application training with Single crystal X-ray Diffractometer organized by Sir C.V Raman Centre for Central Instrumentation, MS University, Tirunelveli	Workshop	National
23.3.2022 – 12.4.2022	Participated	-	Three Weeks FDP on 'Research innovations in biological sciences and Physical sciences organized by Research and Development cell in collaboration with the Department of Microbiology, Zoology and Physics, Syed Ammal Arts and Science College,	FDP	National

			Ramanathapuram		
28.1.2023	Participated	-	Online lecture organized by the Indian association of Physics teachers, Regional council (Delhi & Haryana) on Femto Physics and its Applications by Department of Physics and Astrophysics, University of Delhi, Delhi	Online lecture	National
13.1.2023	Participated	-	Webinar on Nanomaterials for novel applications organized by the Department of Physics, Ramco Institute of Technology, Rajapalayam	Webinar	National
28.2.2023	Participated	-	National webinar on Raman Spectroscopy organized by Centre of excellence for Energy Research, Centre for Nanoscience and Technology, Sathyabama Institute of science and technology, Chennai	Webinar	National
17.2.2023	Participated	-	International virtual seminar on Energy harvesting and sensors organized by PG and Research department of chemistry, J.K.K. Nataraja College of Arts and science, Kumarapalayam	Seminar	Internati onal
26.6.2025	Participated	-	Beyond the	FDP	Internati

			numbers: The Evolving power of Qualitative research organized by Thiagarajar school of management, Madurai		onal
7.7.2025 – 11.7.2025	Participated	-	Five days International virtual FDP on Harnessing Generative AI: Smart schools for teaching, Learning, Evaluation & Research organized by St. Joseph's College (A) with Gobethics, Bengaluru	FDP	Internati onal
21.10.2025 – 25.10.2025	Participated	-	Five days virtual FDP on 'Penning with purpose: Mastering the Art of Research and Publications organized by Marian Research forum, St. Mary's College (A), Thoothukudi	FDP	National
3.10.2025	Participated	-	International conference on Innovation in Chemical sciences for Sustainable Development (ICSSD – 2025) organized by Department of Chemistry (SSC), St. Mary's College (A), Thoothukudi	Conference	Internati onal
28.10.2025 – 30.10.2025	Participated	-	FDP on 'Bridging the digital divide in Teaching and Learning' organized by St. Christopher's College of	FDP	National

			Education, Chennai in collaboration with St. Thomas College of Education, Thoothukudi		
25.8.2025 – 21.11.2025	Participated	-	Online Course on 'Basics of Remote sensing, Geographical information system and Global Navigation satellite system' organized by Department of Space, Government of India, ISRO, IIRS, Dehradun	Online course	National
9.2.2026 – 14.2.2026	Participated	-	One week virtual FDP on 'IKS Embedded Sustainable Education for Digital natives' organized by PG and Research Department of English, Fatima College, Madurai.	FDP	National
18.2.2026	Participated	-	International webinar on Industrial – driven Technologies organized by PG Department of Computer science, St. Mary's College (A), Thoothukudi	Webinar	International
1.12.25 – 6.12.25	Participated		Six days online FDP on Gender Sensitization and Protection of the vulnerable (Towards safer higher education spaces) organized by All India Association for	FDP	National

			Christian Higher Education (AIACHE)		
25.8.2025 – 30.8.2025			Frontiers in Advanced Materials Characterization and Applications organized by PG & Research Department of Physics, Holy Cross College, Trichy and the New College, Chennai	FDP	National
22.9.25 – 26.9.25			'Art of Proposal writing' organized by MCC Research Colloquim, Madras Christian College, Chennai	FDP	National
8.1.26			National Seminar on 'Institutional Progress Framework: An Overview of NIRF and NAAC's New Quality benchmarks'	Seminar	National
21.1.2026 – 30.1.2026			UGC-FDP on NEP – 2020: Sensitization & Orientation	FDP	National

Online Course

Duration	Title	Organized by
25.8.2025 – 21.11.2025	'Basics of Remote sensing, Geographical information system and Global Navigation satellite system'	Department of Space, Government of India, ISRO, IIRS, Dehradun
7.6.2020 – 12.6.2020	Patent searching for beginners	Department of Environmental science, Department of Biotechnology of Sri Ramakrishna Institute of computer education and Applied sciences, Surat and Operant Pharmacy Federation

Experience:

Worked as an Assistant Professor of Physics, St. Xavier's college (Autonomous), Palayamkottai from 25th November 2024 - 16th April 2025.

Joined as an Assistant Professor of Physics, St. Mary's College (Autonomous), Palayamkottai from 16th June 2025.

Roles held in College:

Role	Title of the workshop/ conference	Organized by
Organizing Committee Executive member	International Conference Cum workshop on The Techniques of Nano material Characterization, Hydrogen energy and fuel cells.	PG & Research Department of Physics, St. Xavier's College (Autonomous), Palayamkottai.
Organizing Committee member	PHYSCOM - 2025	PG & Research Department of Physics, St. Xavier's College (Autonomous), Palayamkottai.
Organizing Committee member	Invited talk on 'The Power of Nonlinear thinking'	PG Department of Physics, St. Mary's College (Autonomous), Thoothukudi
Organizing Committee member	Two days hands on training programme on 'Data Analytics'	PG Department of Physics, St. Mary's College (Autonomous), Thoothukudi

List of Publications:

1. **Josephine Gladiya, M,** Anuradha, G.V, Akash, R, Mohanraj, K, Sivashankar, V, 2024, 'Efficient nonlinear optical single crystal synthesized using L-threonine with maleic acid', Journal of Material Science: Materials in Electronics, Vol 35, pp 389. ISSN: 1573 – 482X. (UGC approved)

2. **Josephine Gladiya, M,** Anuradha, G.V, Sivashankar, V, Helina, B, 2023, 'Characterization of gamma - glycine crystals grown in aqueous solution of cerous chloride', European chemical bulletin, Vol 12, No 6, pp 2704 – 2719. ISSN: 2063 – 5346. (UGC approved).

3. **Josephine Gladiya M**, Anuradha G V, Sivashankar V, Helina B, 2024, 'Investigations of Efficient Nonlinear optical Tetra glycine ammonium sulphate (TGAS) crystal for Optoelectronic applications', Indian Journal of natural sciences, Vol 15, No 83, pp 72937 – 72947. ISSN: 0976 - 0997 (UGC approved)

4. **Josephine Gladiya M**, Anuradha G V, Sivashankar V, 2025, 'New Organic Single crystal of Pyridine doped L threonine crystals', Sciencia Acta Xaveriana, Vol 16, No 1, pp 23-25. ISSN: 0976-1152

Others

Member of Red Ribbon Club (2025-2026)

Member of Road Safety club (2026 – 2027)

Declaration:

I, Josephine Gladiya M, affirm that the information furnished above are true and accurate to the best of my knowledge.

Josephine Gladiya M