

Name	Dr. M. Sheeba
Qualification	M.Sc.,B.Ed.,M.Phil.,SET., Ph.D
Designation	Assistant Professor
Year of Joining	21.11.2017
Specialization	Multilayer Coatings
Email id	christysheeba1225@gmail.com



Webinars / Seminars/Workshops/FDP/ Conferences

Title of Webinar / Workshop/ Seminar/ FDP/ Conferences	Type	Paper Presented/ Participated	Title of the Paper	Organized By	Date
International Faculty Development Programme on “Advanced Functional Materials: Energy, Environment and Sustainable Development”	International Faculty Development Programme	Participated	--	Department of Physics , SRM TRP Engineering College, Trichy	26.02.2024 – 05.03.2024
Navigating Consultancy, Filing Patent and Designing Research Article: Insights and Strategies	National Seminar	Participated	--	Marian Research Forum & Internal Quality Assurance Cell, St. Mary’s College (Autonomous), Thoothukudi	20.01.2024
Avoiding Predatory Publishing: Guidelines for	Online Workshop	Participated	--	Marian Research Forum, St. Mary’s College (Autonomous),	11.12.2023

Choosing Quality Journals in the Digital Age				Thoothukudi	
Advanced Research Methodology	Two week interdisciplinary Refresher Course	Participated	--	Teaching Learning Centre, Ramanujan College, University of Delhi	23.10.2023 – 06.11.2023
Artificial Intelligence tools for Education with Special Reference to chat GPT, GPT 4 & LAMMA	National Seminar	Participated	--	Library Committee & IIC St. Mary's College (Autonomous), Thoothukudi collaboration with SALIS – Tirunelveli Chapter	11.08.2023
Advanced Materials for Technological Applications	International FDP	Participated	--	Department of Physics, Sathyabama Institute of Science and Technology, Chennai	24.03.2023 – 04.04.2023
Keys to Publish in High Impact Journals	International webinar	Participated	--	Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	07.02.2023
Webinar on "Nanomaterials for Novel Applications"	Online webinar	Participated	--	Department of Physics, Ramco Institute of Technology, Rajapalayam	13.01.2023
Multilingual Thirukkuural World Record Programme	World Record Programme through online	Participated	--	Manitham Vithaipom, All India Book of Records America Muthamil World Record cobined with Manitham Vithaipom Int Tv	15.08.2022 - 10.10.2022

Condensed Matter Physics	Two Day Online Faculty Development Programme	Participated	--	PG and Research Department of Physics and Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappali in collaboration with Indian Spectro Physics Association (ISPA-Chennai)	24.01.2022 -25.01.2022
Library without walls: E-Resources through NLIST	Online Hands on Tutorial	Participated	--	Library Committee, St. Mary's College (Autonomous), Thoothukudi	10.01.2022
Prospects Of Social Media Tools On Knowledge Sharing	National Webinar	Participated	--	Institution's Innovation Council and Department of Library, St. Mary's College (Autonomous), Thoothukudi	15.12.2021
Nanomaterials	Five Days International Faculty Development Programme	Participated	--	Department of Physics, St. Mary's College (Autonomous), Thoothukudi	23.11.2021 - 27.11.2021
Two weeks International workshop on "Emerging Trends in the field of Science and Technology"	International	Participated	--	Department of Physics, Sathyabama Institute of Science and Technology, Chennai	16.08.2021 - 28.08.2021
FDP on "Recent Research Advances Materials: Water and Waste Water Treatment"	National	Participated	--	Department of Science and Humanities, Bharat Institute of Engineering and Technology and Indian Ceramic Society, Hyderabad,	02.08.2021 - 07.08.2021

				Telangana	
National Level FDP on “Advance Topics in Physics”	National	Participated	--	Department of Physics, St. Mary’s College (Autonomous), Thoothukudi	12.07.2021 – 17.07.2021
One Week Online FDP on “Emerging Trends in Thermal and Renewable Energy Systems ”	National	Participated	--	Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India	28.06.2021 – 02.07.2021
Seven Days International Webinar Series on “Skill Requisites for a Successful Career”	International	Participated	--	The Pearl Research Centre for History, Culture and Tourism, St. Mary’s College (Autonomous), Thoothukudi	24.06.2021 – 30.06.2021
International Webinar on “Nanostructures for Applications Fabricated via the Electro spinning Technique”	International	Participated	--	Department of Physics, St. Mary’s College (Autonomous), Thoothukudi	24.06.2021
One week Virtual National FDP on “Innovation and IPR”	National	Participated	--	Institution’s Innovation Council & Internal Quality Assurance cell, Holy Cross College (Autonomous), Nagercoil.	21.06.2021 – 27.06.2021
International Webinar series on “Indian Nuclear Power Programme” - Fast	International	Participated	--	Department of Applied Physics, Karunya Institute of Tecfhnology and Sciences,	22.06.2021

Forward to Energy Sustainability: The Indian Fast Breeder Reactor Programme				Coimbatore	
International Webinar series on “Indian Nuclear Power Programme” - The Radical Power of the Atom: Peaceful Applications of the Nucleus	International	Participated	--	Department of Applied Physics, Karunya Institute of Technology and Sciences, Coimbatore	15.06.2021
International Webinar series on “Indian Nuclear Power Programme” - India’s Three Stage Nuclear Power Programme: Envisioning the Dream of Dr. Homi Jehangir Bhabha	International	Participated	--	Department of Applied Physics, Karunya Institute of Technology and Sciences, Coimbatore	08.06.2021
Webinar on “Capacity building Programme for future Physicists”	State	Participated	--	PG & Research Department of Physics, Sakthi College of Arts and Science For Women, Oddanchatram	03.06.2021 -05.06.2021
National Level Short Term Course on “Graphics Design”	National	Participated	--	St. Mary’s College (Autonomous), Thoothukudi	26.05.2021 – 31.05.2021
One week AICTE sponsored online Short Term Training Programme (STTP) on “Emerging Trends	National	Participated	--	Swarnandhra College of Engineering & Technology (Autonomous), Kakinada	24.05.2021 – 29.05.2021

in Nanomaterials for Electronics and Optoelectronics Devices (Series III: Fabrication and Characterization of Optoelectronics & Photonic Devices)					
One week AICTE sponsored online Short Term Training Programme (STTP) on “Emerging Trends in Nanomaterials for Electronics and Optoelectronics Devices (Series II: Fabrication and Characterization of Nanoelectronic Devices)	National	Participated	--	Swarnandhra College of Engineering & Technology (Autonomous), Kakinada	17.05.2021 – 22.05.2021
One week AICTE sponsored online Short Term Training Programme (STTP) on “Emerging Trends in Nanomaterials for Electronics and Optoelectronics Devices (Series I: Synthesis and Functionalization of Nanomaterials)”	National	Participated	--	Swarnandhra College of Engineering & Technology (Autonomous), Kakinada	10.05.2021 – 15.05.2021
Webinar on “Advanced Lithographic Techniques For Micro & Nano Fabrication Systems”	National	Participated	--	Aaivaler Materials Society (AMatS), Aaivalayam, Coimbatore	05.05.2021

International E-conference on “Recent Trends in Science and Technology”	International	Presented	Analytical Study of Deposition of TiO ₂ and SiO Multilayers for Blue Colour Display	Marian Star Centre, PG and Research Department of Botany, St. Mary’s College (Autonomous), Thoothukudi, Tamil Nadu	29.04.2021 - 30.04.2021
International Webinar on “Entrepreneurship - An Ubiquitous Impact on Science Graduates (EAUISG)”	International	Participated	--	Marian Star Centre & Department of Economics, School of Management & Economics, St. Mary’s College (Autonomous), Thoothukudi, Tamil Nadu, India In Association With NFED Business Facilitators Forum, National Foundation for Entrepreneurship Development (NFED) Coimbatore, Tamil Nadu, India	24.04.2021
International webinar on “An Update on Covid 19”	International	Participated	--	IQAC, St. Mary’s College (Autonomous), Thoothukudi.	10.07.2020
Online FDP on “Virtual Learning platform for Experimental Science”	State	Participated	--	Department of Physics, A.P.C Mahalaxmi College for Women, Thoothukudi.	02.07.2020

Webinar on “Accelerating Education 4.0 using ICT tools – POST COVID PARADIGM”	National	Participated	--	IQAC, St. Xavier’s College, Palayamkottai.	17.06.2020
One week FDP on “Advanced Materials Research”	National	Participated	--	Department of Science and Humanities, Bharat Institute of Engineering and Technology in collaboration with Indian Ceramic Society, Hyderabad.	15.06.2020 – 19.06.2020
Webinar on “Radioactivity in Environment”	National	Participated	--	Department of Physics and Research Centre, Annai Velankanni College, Tholayavattam, Kanyakumari Dist.	11.06.2020
International Webinar on “Solid State Lasers”	International	Participated	--	The PG & Research Department of Physics, Pope's College, Sawyerpuram.	11.06.2020
Webinar on "Marvels & Mysteries of Universe"	National	Participated	--	The PG & Research Department of Physics, Pope's College, Sawyerpuram.	09.06.2020
Webinar on “ASTROID DAY 2020 – Awareness program”	State	Participated	--	Science Centre, Tirunelveli.	09.06.2020
Webinar on “Geographic information system (GIS)”	National	Participated	--	Department of Physics, St. Mary’s College	02.06.2020

				(Autonomous), Thoothukudi.	
One week long FDP on "Transforming Education- The Google Classroom Way"	National	Participated	--	Aachi Institute of Management and Entrepreneurial Development	01.06.2020 - 07.06.2020
Webinar on "How to use Open Educational Resources to Desire"	National	Participated	--	Department of Physics (SSC), St. Mary's College (Autonomous), Thoothukudi.	31.05.2020
FDP on "Physics on Materials"	National	Participated	--	Department of Physics, School of Engineering & Technology, JAIN (Deemed-To-Be-University), Karnataka.	28.05.2020 - 30.05.2020
Webinar on "Lessons of Lockdown: Magnitude of 'The Butterfly Effect'"	State	Participated	--	Department of Physics, St. Mary's College (Autonomous), Thoothukudi.	28.05.2020
Webinar on "Career Opportunities in Medicare Physics"	National	Participated	--	Department of Physics, Parvathy's Arts and Science College, Dindigul.	26.05.2020
Webinar on "Shock waves - A Potential Tool for tailoring Material's Property"	National	Participated	--	Department of Physics, Kumaraguru College of Technology, Coimbatore.	22.05.2020

Webinar on “Energy, Energy, Everywhere, How to harness it?”	National	Participated	--	Department of Chemistry, V O Chidambaram College, Thoothukudi.	21.05.2020
Five Days FDP on “Teaching Using ICT Tools”	National	Participated	--	IQAC, Department of BCA & Department of IT, JP College of Arts and Science, Ayikudy, Thenkasi Dist.	20.05.2020 - 24.05.2020
Workshop on “Effective Online Teaching Methodologies”	State	Participated	--	Department of Commerce with Corporate Secretaryship, Kamaraj College, Thoothukudi.	18.05.2020 - 23.05.2020
Two day Online Workshop on “Mental Health and Psychosocial Consideration During Lockdown”	--	Participated	--	St. Mary’s College (Autonomous), Thoothukudi in association with Aadhi Foundation.	13.05.2020 - 14.05.2020
Webinar on “Cultivating a Positive Attitude for Professional Excellence”	International	Participated	--	Colombo Plan Staff College, Philippines.	13.05.2020
Webinar on “Selection of Appropriate Statistical Tools: A Critical Way for Successful Research”	--	Participated	--	Research Advisory Committee, St. Mary’s College (Autonomous), Thoothukudi.	12.05.2020
One week National Level Online FDP on “Innovation to Academicians”	National	Participated	--	New Generation Innovation and Entrepreneurship Development Centre	11.05.2020 - 16.05.2020

				Ramachandra College of Engineering, Eluru National Science & Technology Entrepreneurship Development Board Department of Science and Technology, Government of India, NewDelhi.	
Webinar on “Digital Technology and E-Based Learning in TVET”	International	Participated	--	Colombo Plan Staff College, Philippines.	11.05.2020
Webinar on “Role of TVET Schools in Bridging the Gap in Workforce Development”	International	Participated	--	Colombo Plan Staff College, Philippines.	08.05.2020
Webinar on “Nanomaterials for Energy Conversion and Storage”	National	Participated	--	Department of Physics, SNS College of Technology, Coimbatore.	07.05.2020
Webinar on “Supervision and Monitoring of Teaching Processes of TVET Teachers”	International	Participated	--	Colombo Plan Staff College, Philippines.	07.05.2020
Webinar on “Revised Taxonomy of Learning Domains and its Implication in TVET”	International	Participated	--	Colombo Plan Staff College, Philippines.	05.05.2020
Webinar Series on “Conceptual and Applied Physics”	National	Participated	--	Department of Physics, School of Science, RK University and	05.05.2020 - 08.05.2020

				Department of Nanoscience & Advanced Materials, Saurashtra University, Rajkot.	
FDP-Webinar on “Chemistry Behind MRI Contrast Agents”	National	Participated	--	Department of Chemistry, Cauvery College for Women (Autonomous), Trichy.	04.05.2020
Webinar in “How to Use Turnitin Software for your Research- Turnitin Online on Campus”	National	Participated	--	Guru Nanak Institute of Management Studies, Mumbai in association with TURNITIN	04.05.2020
Webinar on “Digital Innovation in TVET sector to Enhance NVQS”	International	Participated	--	Colombo Plan Staff College, Philippines.	04.05.2020
Webinar on “How Nanoscience and Technology Inspired from Nature and Transforming the World?”	National	Participated	--	PG Department of Physics, Cauvery College for Women (Autonomous), Trichy.	03.05.2020
FDP - Webinar on “Mathematical Modelling for Science and Engineering”	National	Participated	--	PG and Research Department of Mathematics, Cauvery College for Women (Autonomous), Trichy.	02.05.2020
Webinar on “Test Items Development Techniques for TVET Teachers”	International	Participated	--	Colombo Plan Staff College, Philippines.	29.04.2020

FDP on “Scilab”	National	Participated	--	V O C College, Thoothukudi collaboration with Spoken Tutorial Project, IIT Bombay.	29.04.2020 – 05.05.2020
Workshop on “E-Content: Processing and Development”	State	Participated	--	IQAC, St. Mary’s College (Autonomous), Thoothukudi.	18.03.2019 – 22.03.2019
State Level Workshop on “Creating Blog for Google Generation in the 2.0 World”	State	Participated	--	Department of Library, St. Mary’s College (Autonomous), Thoothukudi.	12.03.2019
International Conference on Functional Materials and Nanotechnology (ICFMN-2019)	International	Presented	Analytical Study of Role of Number of Layers in Designing Enhanced Reflection Coatings for VIS-NIR Regions	Department of Physics, Annai Velankanni College, Tholayavattam, KK Dist.	25.01.2019
National Conference on “Energy Materials-2018”	National	Presented	Determination of the number of layers of Enhanced Reflection Coatings in Visible region	Department of Physics, MS university, Tirunelveli.	28.06.2018 & 29.06.2018
National Conference on “Processing and Fabrication of Advanced Materials” – NCPFAM-2018	National	Presented	Design and Analysis of Antireflection and Enhanced Reflection Optical Coatings in FUV region	Department of Physics, SSN College of Engineering, Kalavakkam, Chennai.	01.03.2018 & 02.03.2018

Refresher course on “Physics – RCP 2018”	Refresher course	Participated	--	MS University, Tirunelveli.	29.01.2018 & 30.01.2018
National seminar on “Academic and research Integrity in the digital world”	National	Participated	--	St. Mary’s College (Autonomous), Thoothukudi.	09.12.2017
National Seminar on “Cosmic concerns: An interdisciplinary Dialogue in Applied Ethics”	National	Participated	--	IQAC, St. Mary’s College (Autonomous), Thoothukudi.	27.01.2017 & 28.01.2017
National conference on “Exploring Space”	National	Participated	--	Department of Physics, St. Mary’s College (Autonomous), Thoothukudi.	26.02.2016
National Seminar on “Multidisciplinary Research”	National	Participated	--	MRF, St. Mary’s College (Autonomous), Thoothukudi.	20.02.2016
National Seminar on “Quality Enhancement in Higher Education”	National	Participated	--	IQAC, St. Mary’s College (Autonomous), Thoothukudi.	7.01.2016 & 8.01.2016
National Conference on “Recent Trends and Advances in Physics” – NCRTAP – 2015	National	Paper presented (Second prize for oral presentation)	Multilayer Antireflection Coatings for the Near Infrared Spectrum	PG Department of Physics, The M.D., T. Hindu College, Pettai, Tirunelveli.	19.02.2015 & 20.02.2015
International Conference on “Solar Energy” – INCSE 2015	International	Participated	--	Department of Physics, St. Mary’s College (Autonomous),	11.02.2015

				Thoothukudi.	
National Conference on “Renewable Energy for Green Future”	National	Participated	--	Department of Physics, Pope’s College, Sawyerpuram.	29.01.2015 & 30.01.2015
State Level Workshop on “MATLAB”	State	Participated	--	Department of Computer Science, St. Mary’s College (Autonomous), Thoothukudi.	27.07.2014
National Level Seminar on “X-ray Crystallography	National	Participated	--	Department of Physics, S.Vellaichamy Nadar College, Nagamalai, Madurai.	14.02.2014
National Seminar on “Institutional Quality Improvement: Role of Information and Communication Technology”	National	Participated	--	IQAC, St. Mary’s College (Autonomous), Thoothukudi.	31.01.2014 & 01.02.2014
National Conference on “Advanced Materials” NCAM-2013	National	Paper presented	Analytical Study of Effect of Refractive Index Variation and Number of Layers in Narrow Band Optical Filters	Department of Physics, St. Mary’s College (Autonomous), Thoothukudi.	15.02.2013 & 16.02.2013

National Seminar on “Advanced Method of Preparation and Characterization of Newer Materials”	National	Paper presented	Computation of number of layers desired in Enhanced reflectors	Department of Physics, Holy Cross College (Autonomous), Nagercoil.	19.12.2012 & 20.12.2012
Workshop on “MATLAB”	State	Participated	--	Department of Mathematics, St. Mary’s College (Autonomous), Thoothukudi.	18.08.2012
National Seminar on “Green energy and Material science” – GEMS – 2010	National	Participated	--	Department of Physics & Chemistry, St. Mary’s College (Autonomous), Thoothukudi.	11.12.2010

Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Analytical Study of deposition of TiO ₂ and SiO multilayers for blue color display	M. Sheeba, A. Nirmala Shirley, S. Surendarnath, J.Jebaraj Devadasan	AIP Conference Proceedings	Nov 2022		2446	130012-4
Studies on ZnS thin films synthesized by nebulizer spray pyrolysis technique for solar cell applications	A. Nirmala Shirley, M. Sheeba, J.Jebaraj Devadasan	AIP Conference Proceedings	Nov 2022		2446	130011-5
Analytical Study of Refractive Index Variation in Near Infrared Region for Designing Enhanced Reflection Coating	M. Sheeba, J.Jebaraj Devadasan	International Journal of Scientific Engineering and Technology Research	July 2017	06	25	4895-4898
Modelling of high performance Narrowband Antireflection Coating	M. Sheeba, J.Jebaraj Devadasan	International Journal of Material science	2015	03	01	16-23

for Visible spectrum		Innovations				
Antireflection Coatings for the Far Ultraviolet Region	M. Sheeba, J.Jebaraj Devadasan	Marian Quest	February 2015	04	1 & 2	13-15
Designing of Enhanced Reflection Coating For Visible Range	M. Sheeba, J.Jebaraj Devadasan	Marian Quest	October 2012	01	02	111-115

As Resource Person

Date	Name of the Institution	Invited As	Event	Topic
30.01.2024	Tamilnadu State Council for Science and Technology, Chennai and St. Mary's College (Autonomous), Thoothukudi	Resource Person	Inservice Training Programme for Science Teachers	The Universe

Others:

- Member of Examination Committee
- Internal Coordinator in Alumni Association
- Member of Red Ribbon Club
- Member of Scribes Forum, Quiz club and Road Safety Patrol
- Marian Star Centre – Department Coordinator
- Member of Website Committee