

Name	Dr. P.Padmavathi
Qualification	M.Sc.,M.Phil.,SET.,B.A(Hindi)., Ph. D
Designation	Assistant Professor
Year of Joining	23/11/2023
Specialization	Ultrasonics
Email id	padma.pi2018@gmail.com



Seminars/Workshops/FDP/Conferences /Webinars

Date	Paper Presented/ Participated	Title of the Paper	Organized By	Workshop/ Seminar/ FDP/ Conferences	Type
13.11.2024-15.11.2024	presented	Piper Nigrum Mediated Silver Oxide Nanoparticles Using Cardium Seashell For Bio-Medical Applications	Ultrasonic Society of India & Department of Physics, Kamaraj College, Thoothukudi	International Conference on Ultrasonics & Material Science for Advanced Technology	International
13.09.2024-14.09.2024	participated	-	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	National Workshop on IPR Procedures and Awareness	National
20.08.2024	participated	-	Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	Workshop on Elevate your research: Author and Editor Insights for Publishing in a Reputed journal	State
1.07.2024 – 10.07.2024	participated	Training ID MMC-085-2024-JL-A-01458	Bharadidasan University, Tiruchy	Training and sensitization programme	National online

		NEP 2020 Orientation and Sensitization programme			
13.07.24	participated	-	Dept of Environment & Climate Change, Tamilnadu	Workshop on Energy Efficient Habitat	State
Jan-Apr 2024 (12 week course)	-	Biophotonics	NPTEL	Short term course (Elite + Silver)	National
06.04.2024	Participated	-	IQAC, St. Xavier's college, palayamkottai	AI tools for Teaching and learning	State
21.03.2024 – 22.03.2024	Participated	-	Science Academies' & PG & Research Department of Physics, Popes College, Sawyerpuram	Lecture workshop on Characterization of Molecules and Materials	State
20.03.2024	Participated	-	Library Committee, St. Mary's College, Thoothukudi	Glimpse on OER in conjunction with tutorial on ZOTERO: A reference management tool	National
20.01.2024	Participated	-	Marian Research Forum & Internal Quality Assurance Cell, St. Mary's College (Autonomous), Thoothukudi	Navigating Consultancy, Filing Patent and Designing Research Article: Insights and Strategies	National Seminar
12.01.2024 to 13.01.2024	Participated	-	Department of Physics, SSN College, Kalavakkam, Chennai	Programme on synthesis of crystalline materials and their structural and optical characteristics	Workshop- Hands on Training

30.09.23	Participated	-	ICT Academy of Tamil Nadu, Madurai	Bridge 2023-Madurai (A High Impact Industry-Institute Interaction Event of India)	Interaction event
24.03.2023 to 04.04.2023	Participated	-	Sathyabama Institute of Science and Technology	II international FDP on Advanced Materials for Technological Applications	FDP
22.12.2022 - 24.12.2022	Presented	Molecular interaction between ester with ethanol at different temperature using ultrasonic technique	Department of Physics and Materials Science and Engineering (PMSE) Jaypee Institute of Information Technology, Noida (INDIA)	2nd International Conference On Advanced Materials And Nanotechnology (ICAMN2022)	International Conference
10.11.2022 - 11.11.2022	Presented	Green synthesis and characterization of Zinc oxide using carica papaya leaf extract	Department of Physics, Faculty of Engineering, Teerthankaer Mahaveer University	3 rd International conference on Material and Devices (NCMD 2022)	International conference
10.11.2022 - 11.11.2022	Presented	Investigation of Excess Thermo-Acoustic behaviour of Binary liquid mixture with various temperature using Ultrasonic Technique	Department of Physics, Faculty of Engineering, Teerthankaer Mahaveer University	3 rd International conference on Material and Devices (NCMD 2022)	International conference
18.02.2022 - 23.02.2022	Participated	-	Department of Physics, St. Mary's College, Thoothukudi	Online FDP on Smart materials for New technology	International FDP

07.02.2022- 08.02.2022	Participated	-	Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli	An online FDP on Astronomical studies	National FDP
10.01.2022	Participated	-	Library Committee, St. Mary's College, Thoothukudi	Hands on Tutorial on Library without walls: E- Resources through NLIST	National
23.11.2021 - 27.11.2021	Participated	-	Department of Physics, St. Mary's College, Thoothukudi	Five days international faculty Development Programme on Nano materials	International FDP
29.07.2021 - 31.07.2021	Presented	An Investigation in the Binary Mixture of N- Butyl Acetate with CCl ₄ using Ultrasonic Techniques	Department of Environmental Sciences in collaboration with Physics Department, Sharda University	International Conference on Energy and Environmental Materials (INCEEM)	International E- Conference
19.07.2021 - 22.07.2021	Presented	Physico- Chemical Characterizati on Of Ethyl Propionate With Butanol At Different Temperatures Using Ultrasonic Technique	School of Basic Science and Research, Sharda University, Greater Noida	International Conference on Science and Engineering of Materials (ICSEM)	International E- Conference
29.04.2021 & 30.04.2021	Presented	Study of Acoustical Parameters of Bioactive Compound with Benzyl Propionate using Ultrasonic Technique	Department of Botany, St. Mary's College, Thoothukudi	International E- Conference on Recent Trends in Science and Technology	International E- Conference

24.03.2021- 26.03.2021		an analysis on thermo-acoustic behavior of binary liquid mixture with various temperature using ultrasonic technique	Department of Physics, Manonmaniam Sundaranar University	International E-Conference on Advances in Materials Science(ICAMS 2021)	International E-Conference
07.02.2021 - 09.02.2021	Presented	A discussion of acoustical parameters in binary mixtures at different temperatures: An ultrasonic study	Shetkari Shikshan Sanstha's Arts, Commerce & Science College, Maregon, (Affiliated to SGB Amravati University, Amravati (M.S))	International E-Conference on Recent Advances in material Science and Nano Technology	International E-Conference
28.11. 2020 - 30.11.2020	Presented Best Paper award	Ultrasonic studies in DMSO with different alcohol mixtures	Department of Physics, School of Sciences and Research (SBSR), Sharda University, Greater Noida, Uttar Pradesh, India	Recent Trends in Acoustics and Material Science"-2020 (RTAMS-2020)	National Conference
28.07.2020 - 04.08.2020	Participated	-	Puthiya Thalaimurai Foundation	Basics of Website Development and Web Hosting	Certificate course
11.07.2020	Participated	-	IQAC, St. Mary's College (Autonomous), Thoothukudi	Learning to live with COVID-19: Embracing the new reality	National Level Webinar
10.07.2020	Participated	-	IQAC, St. Mary's College (Autonomous), Thoothukudi	An update on COVID -19	International Level Webinar
18.06.2020 - 20.06.2020	Participated	-	Servite College of Education for Women, Thogamalai, Karur Dt.	ICT Tools for smart teaching	State Level Workshop

15.06.2020 - 17.06.2020	Participated	-	IQAC, V.O.C College, Thoothukudi	Research capacity building	National level FDP
08.06.2020 - 15.06.2020	Participated	-	Ramanujan College, University of Delhi, Delhi	Open source Tool for research	National level FDP
29.05.2020 - 30.05.2020	Participated	-	Faculty of Humanities and Science, Adayalampattu phase - ii campus Dr.M.G.R.Educational and research institute	virtual teaching - learning moodle the efficient way	National level Webinar
26.05.2020 - 28.05.2020	Participated	-	UGC-human resource development Centre University of Hyderabad	Online course design, development and delivery	National level workshop
23.05.2020	Participated	-	St. Mary's College (autonomous), Thoothukudi	Teachers resilience; the blue print for efficiency during uncertainty	National level Webinar
22.05.2020	Participated	-	NTVS, college of law, Institute of legal education and research, Nandurbar	Current issue in intellectual property rights	National level Webinar
20.05.2020 - 21.05.2020	Participated	-	Department of applied science under IQAC, PIET, Jaipur	Migration of it infra using cloud	National level FDP
18.05.2020 - 22.05.2020	Participated	-	Dept. of. Commerce, Kamaraj college, Thoothukudi	Effective online teaching methodologies	National level workshop
16.05.2020	Participated	-	PG department of chemistry(SSC), St. Mary's college(autonomous), Thoothukudi	Bioinformatics in micro biome research & climate, biomes and India	National level webinar

14.05.2020	Participated		ICT academy	Good teacher to great teacher	State level webinar
12.05.2020	Participated		Karpagam Institute of Technology Department of science and humanities, Karpagam institute of technology, coimbatore	Virtual learning resources in science teaching	National level webinar
11.05.2020 - 15.05.2020	Participated		ICT academy	The future of skills – education, employment & entrepreneurship	National level webinar
11.05.2020 -16.05.2020	Participated		Ramachandra college of Engineering, Eluru	Innovation to academicians	National level FDP
11.05.2020	Participated		ICT academy	The power of you	State level webinar
11.05.2020	Participated		Colombu staff plan college	Digital technology and e-based learning in TVET	International webinar
14.05.2020	Participated		Colombu staff plan college	Development of online teaching and learning resources using ICT	International webinar
13.05.2020	Participated		Colombu staff plan college	Cultivating a positive attitude for professional excellence	International webinar
13.05.2020 - 14.05.2020	Participated		Dept. of Psychology, St. May's college(Autonomous), Thoothukudi	Mental health and psychological consideration during lockdown	National level Workshop

12.05.2020	Participated		Marian research forum, St. Mary's college(Autonomous), Thoothukudi	Selection for appropriate statistical tools: A critical way for successful research	National level Webinar
11.05.2020	Participated		Dept. of Psychology, St. Mary's college (Autonomous), Thoothukudi	Psychological first aid	National level webinar
08.05.2020	Participated		Colombu staff plan college	Role of TVET schools in bridging the gap in workforce development	International webinar
07.05.2020	Participated		Colombu staff plan college	Supervision and monitoring of teaching processes of TVET teachers	International webinar
07.05.2020	Participated		SNS college of technology, Coimbatore	Nano materials for energy conservation and storage	National level webinar
05.05.2020 - 08.05.2020	Participated		RK university	conceptual and applied physics	National level webinar
05.05.2020	Participated		Colombu staff plan college	Revised taxonomy of learning domains and its implication in TVET	International Webinar
04.05.2020	Participated		Colombu staff plan college	Digital innovation in TVET sector to enhance NVQS	International Webinar
04.05.2020	Participated		Guru Nanak Institute of Management Studies (approved by AICTE, new Delhi & affiliated to university of	How to use Turnitin software for your research "Turnitin online on campus"	National Webinar

			Mumbai)		
03.05.2020	Participated		IQAC and department of chemistry, Shri Pancham Khemraj Mahavidyalaya, Sawantwadi	Applications of quantum chemistry	National online conference
03.05.2020	Participated		PG department of physics, Cauvery college for women (autonomous), Trichy - 18	How nanoscience and technology inspired from nature and Transforming the world?	National level webinar
29.04.2020	Participated		Colombu staff plan college	Test items development techniques for TVET teachers	International webinar
20.04.2020-06.05.2020	Participated		Ramanujan college, University of Delhi	Managing online classes and co-creating MOOCS	National level FDP
16.03.2019	presented		Pope's College, Sawyerpuram	Advanced Materials-SSAM'19	State Level seminar
02.02.2019	Participated	-	VOC College, Thoothukudi	Scholarly writings and Publishing research papers	State Level workshop
11.11.2018 & 15.11.2018	presented	Evaluation of thermodynamic parameters of sea water at different temperature through ultrasonic studies	Acoustical Society of India & Ultrasonic society of India, New Delhi	WESPAC 2018 NEW DELHI	International conference
20.02.2018 & 21.02.2018	Participated	-	Shri Ramasamy Naidu Memorial College, Sathoor	ICMAT-SPA 2018	International Conference

29.01.2018 & 30.01.2018	Participated	-	Manonmaniam Sundaranar University Tirunelveli.	Physics- RCP 2018	State level Refresher Course
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Online Course

Duration	Title	Organized by
Jan-Apr 2024 (12 week course)	Biophotonics	NPTEL

Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Investigation of ultrasonic parameters and thermal conductivity of binary liquid mixtures with alcohol with benzene	A. Mathana Gopal, S.Irudaya Sahaya Lancy, P.Padmavathi , J.Poongodi, A. MosesEzhil Raj	Studies in Indian place names	2020	40	71	1008-1014
A discussion of acoustical parameters in binary mixtures at different temperatures: An ultrasonic study	P.Padmavathi ,S.Irudaya Sahaya Lancy, Krishna Kumar Pandey, A. Mathana Gopal, J.Poongodi, A. MosesEzhil Raj	International Journal of Scientific Research in Science and Technology	2021	8	1	16-20
Comparative Analysis of Commercial and Herbal Extorted Cough Syrups in Tamilnadu (South India) Zone - An Investigation by Methodologies of Spectral Way and High Frequency	P Padmavathi , Senthil Kannan K, Jessie Fernando, Poongodi , Vijayalakshmi B, Moses Ezhil raj, Irudaya Sahaya Lancy S	AIP Conference proceedings	2022	2385		060001-060006

(Ultrasonic) Waves to Predict Samples Efficacy						
Thermo-acoustic studies of ethyl propionate with propan-2-ol at different temperatures using ultrasonic technique	P.Padmavathi , A.Lucas Rexceline, A.MathanaGopalA.Ir udaya Sahaya Lancy,J.Poongodi	Materials today: Proceedings	2022	67	5	821-826
Effect of temperature on the ultrasonic investigation in binary liquid mixture of N-Butyl Acetate with 2-Propanol	S. Irudaya Sahaya Lancy, P. Padmavathi , C. James, J. Poongodi,s Ezhil Raj	Neuroquant ology	2022	20	-	3508- 3510
Study of acoustical parameters of bioactive compound with benzyl propionate using ultrasonic technique	P. Padmavathi , S. Irudaya Sahaya Lancy, A. Mathana Gopal, Jessie Fernando, J. Poongodi, Krishna Kumar Pandey, Moses Ezhil Raj	AIP Conference Proceedings	2022	2446		100029
Extortion, anti-bacterial, spectral, band gap and ultrasonic factors of herbal cough syrup and content comparison with commercial samples	P. Padmavathi , J. Fernando, K. SenthilKannan, J. Poongodi, A. M. Ezhil Raj, R.P. Patel	AIP Conference Proceedings	2022	2446		100034
Opto electronic filter effectiveness by influx of macro, thin film and nano scalings stress analysis of trapezoidal and spiral coated device characterizations	J. Fernando, P. Padmavathi , K. SenthilKannan, A. R. Kadam, Samiksha. B. Dhoble, R. Kannan, S. J. Dhoble	AIP Conference Proceedings	2022	2446		100036

of Eu ²⁺ doped barium hexafluorosilicate (BaSiF ₆ :Eu ²⁺) phosphors						
Vicker's hardness, elastic stiffness, fracture toughness, hardness in mohs scale, young's modulus and yield strength measurement of BaSiF ₆ :Eu ²⁺ phosphors	J. Fernando, P. Padmavathi , K. SenthilKannan, A. R. Kadam, R. Kannan,S. J. Dhoble	AIP Conference Proceedings	2022	2446		100035
Gruneisen parameters for alcohol with benzene at different temperature	A. Mathana Gopal, S. Irudaya Sahaya Lancy, P. Padmavathi , J. Poongodi, A. Moses Ezhil Raj	AIP Conference Proceedings	2022	2446		100030
Molecular Interaction in Binary Mixtures of Benzyl propionate with methanol at different temperatures: An Ultrasonic study	Jessie Fernando , Jeeva Rani Thangam G, Padmavathi P , Irudaya Sahaya Lancy S, Krishna Kumar Pandey, Poongodi J	Neuroquant ology	2022	22		3674-3682
Physico-Chemical Characterization of Ethyl Propionate with Butanol at Different Temperatures Using Ultrasonic Technique	Padmavathi P. MathanaGopal A., IrudayaSahayaLancy A., Krishna Kumar Pandey, Poongodi J., and Jessie Fernando	Macromole cular Symposia	2023	407		2200004
Evaluation of Sound Velocity and Molar Refraction in Binary Liquid Mixtures through	Padmavathi P. ,MathanaGopal A, IrudayaSahayaLancy A, Krishna Kumar Pandey, Poongodi J, and Jessie Fernando	Macromole cular Symposia	2023	407		2200006

Ultrasonic Measurement						
An Investigation in the Binary Mixture of N-Butyl Acetate with CCl ₄ using Ultrasonic Techniques	IrudayaSahayaLancy, Padmavathi P. , MathanaGopal A., Krishna Kumar Pandey, and Poongodi J.	Macromolecular Symposia	2023	407		2200001
Thermo Acoustical Analysis of Nickel Sulfamate with DMSO at Varying Temperatures Using Ultrasonic Techniques	IrudayaSahayaLancy S., Padmavathi P. , MathanaGopal A., Krishna Kumar Pandey, and Poongodi J.	Macromolecular Symposia	2023	407		2200003
Pseudo-Gruneisen Parameters for Binary Liquid Mixtures at Different Temperature	MathanaGopalArunachalam, Padmavathi Paulraj, IrudayaSahayaLancy Sreedharan, Krishna Kumar Pandey, Poongodi Jawaharlal, and James C	Macromolecular Symposia	2023	407		2200009
Synthesis of Novel CuO–Gelatin Nanofluids Using Ultrasonic Technique	MathanaGopalArunachalam, Padmavathi Paulraj, IrudayaSahayaLancy Sreedharan, Krishna Kumar Pandey, Poongodi Jawaharlal, and James C	Macromolecular Symposia	2023	407		2200007
Molecular interaction between ester with ethanol at different temperature using ultrasonic technique	P. Padmavathi, C. ZozimusDivya Lobo, Krishna Kumar Pandey ^b , Manoj Tripathi ^c , S IrudayaSahayaLancy, A. MathanaGopal, J. Poongodi	Materials Today: Proceedings	2023			
Investigation of excess thermo-acoustic behaviour of binary liquid	P.Padmavathi , Jeeva Rani Thangam G, Lucas Rexceline A, IrudayaSahayaLancy S, Krishna Kumar	Macromolecular Symposia	2024	413		2300048

mixture with various temperatures using ultrasonic technique	Pandey, Poongodi J,					
Green Synthesis and Characterization of Zinc oxide Carica Papaya leaf Extract	P, Padmavathi, IrudayaSahayaLancy S, Jeeva Rani Thangam G, Krishna Kumar Pandey, Poongodi J,	Macromolecular Symposia	2024	413		2300047
Effect of temperature change on thermo-acoustic parameters of binary liquid mixture of benzyl propionate with ethanol	Padmavathi Paulraj, Jeeva Rani Thangam Gandhi,Zozimus Divya Lobo Chandrasekar, Irudaya Sahaya Lancy Sreedharan, Krishna Kumar Pandey, Poongodi Jawaharlal	AIP Conference Proceedings	2024	3149		030031

Books Published

Date	Book Title	Author(s)	ISBN Code	Editions	Publisher
16 th June 2022	Nanovaccinology as targeted therapeutics	K. Senthil Kannan, Prabhjeet Kaur Dhillon, Jemma Hermelin Jesy Diaz, P. Padmavathi , G. Flora, S. Irudhya Sahaya Lancy, G. Jeeva Rani Thangam, M. Sheeba	9781119857341	First	Wiley
5 th September 2023	Microbial Processes for Synthesizing Nanomaterials	C. Zozimus Divya Lobo, J. Maalmarugan, R. Divya, S. Irudaya Sahaya Lancy, P. Padmavathi, K. SenthilKannan & M. Vimalan	978-981-99-2808-8	First	Springer Nature

5 th September 2023	Microbial Processes for Synthesizing Nanomaterials	R. Krishnaveni, H. Ganesan, G. Jeeva Rani Thangam, C. Zozimus Divya Lobo, P. Padmavathi, K. SenthilKannan & M. Vimalan	978-981-99-2808-8	First	Springer Nature
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As Resource Person

Date	Name of the Institution	Invited As	Topic/Event
11.09.2023	Department of Physics, APC Mahalakshmi College for Women,Thoothukudi.	Resource Person	Frontiers of Ultrasonic Technology in Research and Applications
28.08.2017-01.09.2017	Department of Zoology, St. Mary's College, Thoothukudi	resource person for the “In Service Training Programme For Secondary Grade Teachers”	Electricity
Oct. 2016- May 2018	Maritime Academy, Thoothukudi Affiliated by Indian Maritime university	Visiting faculty for the Diploma in Nautical Science(DNS) cadets	Applied Science

Others:

1. SSC Physics coordinator.
2. Member of AICUF.
3. Life member of Ultrasonic Society of India (USI) - LM No.375
4. Organized two webinars (1-National, 1- State level)
5. Member of career guidance and placement cell.
6. Assistant co-ordinator for Inservice Training Programme for School Teachers Catalysed and Supported by Tamilnadu State Council for Science and Technology (TNSCST)

7. Received grant Rs. 1,00,000 for UBA project titled “ Garbage bank for Sustainable Solid Waste Management in Panchalankurichi Village” in the year 2024-2025
8. Receive grant Rs. 7,500 for student project tilted “Enhanced electrical properties of green synthesised TiO₂ and ZnO compact layer on perovskite solar cell” in the year 2022-2023