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	Туре
1.07.2024 – 10.07.2024	participated	Training ID MMC-085- 2024-JL-A- 01458 NEP 2020 Orientyation and Sensitization programme	Bharadidasan University,Tirchy	Training and sensitization programme	National online
13.07.24	participated	Energy Efficient Habitat	Dept of Environment & Climate Change, Tamilnadu	Workshop	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	Lecture workshop on Characterization of Molecules and	State

			Physics, Popes College, Sawyerpuram	Materials	
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) Applications 2nd Internation Conference On Advanced Materials And Nanotechnolog (ICAMN2022)		International Conference

10.11.2022 - 11.11.2022	Presented	Green synthesis and characterizati on 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	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 or Nano materials		International FDP
29.07.2021 - 31.07.2021	Presented	An Investigation in the Binary Mixture of N- Butyl Acetate with CCl4 using Ultrasonic	Department of Environmental Sciences in collaboration with Physics Department, Sharda University International Conference on Energy and Environmental Materials (INCEEM)		International E- Conference

		Techniques			
19.07.2021	Presented	Physico- Chemical Characterizati on Of Ethyl Propionate	School of Basic Science and	International Conference on Science and	International
22.07.2021		With Butanol At Different Temperatures Using Ultrasonic Technique	Research, Sharda University, Greater Noida	Engineering of Materials (ICSEM)	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, Manonmanium 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, Utter 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.REducatio nal and research institute	lty of anities and learning moodle the efficient way valampattu e - ii campus I.G.REducatio nd research	
26.05.2020 - 28.05.2020	Participated	-	UGC-human resource development Centre	Online course design, development and delivery	National level workshop

			University of Hyderabad		
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	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 academician	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(Autonomo us), Thoothukudi	Mental health and psychological consideration during lockdown	National level Workshop
12.05.2020	Participated	Marian research forum, St. Mary's college(Autonomo us), 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	Colombu staff plan Role of TVET	
07.05.2020	Participated	Colombu staff plan college	Supervision and monitoring of teaching processes of	International webinar

			TVET teachers	
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 Mumbai)	How to use Turnitin software for your research "Turnitin online on campus"	National Webinar
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 semianr
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 thermodynami c 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

Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Investigation of	A. Mathana Gopal,	Studies in	2020	40	71	1008-
ultrasonic	S.Irudaya Sahaya	Indian place				1014
parameters and	Lancy,	names				
thermal	P. Padmavathi,					
conductivity of	J.Poongodi,					
binary liquid	A. MosesEzhil Raj					
mixtures with						

alcohol with						
benzene			2021			1.50
A discussion of	P. Padmavathi,	Internationa	2021	8	1	16-20
acoustical	S.Irudaya Sahaya	1				
parameters in	Lancy, Krishna	Journal of				
binary mixtures at	Kumar Pandey,	Scientific				
different	A. Mathana Gopal,	Research in				
temperatures: An	J.Poongodi,	Science and				
ultrasonic study	A. MosesEzhil Raj	Technology				
Comparative	P Padmavathi, Senthil	AIP	2022	2385		060001-
Analysis of	Kannan K, Jessie	Conference				060006
Commercial and	Fernando, Poongodi,	proceedings				
Herbal Extorted	Vijayalakshmi B,					
Cough Syrups in	Moses Ezhil raj,					
Tamilnadu (South	Irudaya Sahaya Lancy S					
India) Zone - An Investigation by						
Methodologies of						
Spectral Way and						
High Frequency						
(Ultrasonic) Waves						
to Predict Samples						
Efficacy						
Thermo-acoustic	P.Padmavathi, A.	Materials	2022	67	5	821-826
studies of ethyl	Lucas Rexceline,	today:				
propionate with	A.Mathana Gopal	Proceedings				
propan-2-ol at	A.Irudaya Sahaya					
different	Lancy, J.Poongodi					
temperatures	J ,					
using ultrasonic						
technique						
Effect of	S. Irudaya Sahaya	Neuroquant	2022	20	_	3508-
temperature on	Lancy, P.	ology	2022	20		3510
the ultrasonic	Padmavathi, C.	ology				3310
investigation in	James, J. Poongodi,s					
binary liquid	Ezhil Raj					
mixture of N-	Ezim Raj					
Butyl Acetate						
with 2-Propanol						
Study of	P. Padmavathi, S.	AIP	2022	2446		100029
acoustical	Irudaya Sahaya	Conference	2022	∠⊤⊤∪		100027
parameters of	Lancy, A. Mathana	Proceedings				
bioactive	Gopal, Jessie	Troccedings				
compound with	Fernando, J.					
benzyl propionate	Poongodi, Krishna					
using ultrasonic	Kumar Pandey,					
_	Moses Ezhil Raj					
technique	WIOSES EZIII Kaj	<u> </u>				

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 of Eu2+ doped barium hexafluorosilicate (BaSiF6:Eu2+) phosphors	J. Fernando, P. Padmavathi, K. SenthilKannan, A. R. Kadam, Samiksha. B. Dhoble, R. Kannan, S. J. Dhoble	AIP Conference Proceedings	2022	2446	100036
Vicker's hardness, elastic stiffness, fracture toughness, hardness in mohs scale, young's modulus and yield strength measurement of BaSiF6:Eu2+ 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 Ultrasonic Measurement	Padmavathi P,MathanaGopal A, IrudayaSahayaLancy A, Krishna Kumar Pandey, Poongodi J, and Jessie Fernando	Macromole cular Symposia	2023	407	2200006
An Investigation in the Binary Mixture of N-Butyl Acetate with CCl4 using Ultrasonic Techniques	IrudayaSahayaLancy, Padmavathi P.,MathanaGopal A., Krishna Kumar Pandey, and Poongodi J.	Macromole cular Symposia	2023	407	2200001
Thermo Acoustical Analysis of Nickel Sulfamate with DMSO at Varying Temperatures	IrudayaSahayaLancy S., Padmavathi P., MathanaGopal A., Krishna Kumar Pandey, and Poongodi J.	Macromole cular Symposia	2023	407	2200003

Using Ultrasonic Techniques					
Pseudo-Gruneisen Parameters for Binary Liquid Mixtures at Different Temperature	MathanaGopalArunac halam, PadmavathiPaulraj, IrudayaSahayaLancy Sreedharan, Krishna Kumar Pandey, Poongodi Jawaharlal, and James C	Macromole cular Symposia	2023	407	2200009
Synthesis of Novel CuO– GelatinNanofluids Using Ultrasonic Technique	MathanaGopalArunac halam, PadmavathiPaulraj, IrudayaSahayaLancy Sreedharan, Krishna Kumar Pandey, Poongodi Jawaharlal, and James C	Macromole cular Symposia	2023	407	2200007
Molecular interaction between ester with ethanol at different temperature using ultrasonic technique	P. Padmavathi, C. Zo zimusDivya Lobo, Krishna Kumar Pandey ^b , Manoj Trip athi ^c , S IrudayaSahay aLancy, A. MathanaG opal, J. Poongodi	Materials Today: Proceedings	2023		
Investigation of excess thermo-acoustic behaviour of binary liquid mixture with various temperatures using ultrasonic technique	P.Padmavathi, Jeeva Rani Thangam G, Lucas Rexceline A, IrudayaSahayaLancy S, Krishna Kumar Pandey, Poongodi J,	Macromole cular Symposia	2024	413	2300048
Green Synthesis and Characterization of Zinc oxide Carica Papaya leaf Extract	P, Padmavathi, IrudayaSahayaLancy S, Jeeva Rani Thangam G, Krishna Kumar Pandey, Poongodi J,	Macromole cular Symposia	2024	413	2300047

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

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

	Maritime Academy,		
	Thoothukudi	Visiting faculty for the	
Oct. 2016- May 2018	Affiliated by	Diploma in Nautical	Applied Science
	Indian Maritime	Science(DNS) cadets	
	university		

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 carrier 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)