

<b>Name</b>	Dr. Sr. Jessie Fernando
<b>Qualification</b>	M.Sc., M.Phil., Ph.D
<b>Designation</b>	Principal and Associate Professor
<b>Year of Joining</b>	15.12.1995
<b>Specialization</b>	Solid State Physics
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### Webinars/Seminars/Workshops/FDP/ Conferences

<b>Title of Webinars/ Seminars/ Workshops/ FDP/ Conferences</b>	<b>Type</b>	<b>Paper Presented/ Participated</b>	<b>Title of the Paper</b>	<b>Organized By</b>	<b>Date</b>
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
Blooms Taxonomy in Teaching and Learning	One day National FDP	Participated	--	Sansnow's Nobel Professional Foundation	16.02.2023
Theme Centred Interaction	Five day International Workshop	Participated	--	RCI for TCI India, Chapter of Tamil Nadu, India and Annammal College of Education for Women, Thoothukudi.	22.01.2023 – 26.01.2023

Webinar on “Nanomaterials for Novel Applications”	Online webinar	Participated	--	Department of Physics, Ramco Institute of Technology , Rajapalayam	13.01.2023
Bridge 2022 – Kanyakumari (A High Impact Industry – Institute Interaction Event Of India)	National webinar	Participated	--	ICT Academy of Tamilnadu	28.03.2022
Importance of IP in Scientific Research - An Overview	International webinar	Participated	--	Marian Research Forum, St.Mary’s College(Autonomous), Thoothukudi	01.03.2022
Emerging Materials and It’s Application (ICEMA – 2022)	International Conference	Participated	--	Department of Physics, St. Xavier’s College (Autonomous), Palayamkottai.	01.03.2022
Smart Materials for New Technology	Five Days International Faculty Development Programme	Participated	--	Department of Physics & Marian Star Centre, St. Mary’s College (Autonomous), Thoothukudi	18.02.2022 - 23.02.2022
Exploring New Frontiers in chemical and Biological Science	One Week Online Faculty Development Programme	Participated	--	Department of Chemistry, Marian Star Centre, St. Mary’s College (Autonomous), Thoothukudi	31.01.2022 – 5.02.2022
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), Tiruchirappalli–620020 in collaboration with Indian Spectro Physics Association (ISPA-Chennai)	24.01.2022 - 25.01.2022

Nanomaterials	Five Days International Faculty Development Programme	Participated	--	Department of Physics, St. Mary's College (Autonomous), Thoothukudi	23.11.2021 - 27.11.2021
Emerging Trends in Nano Technology (ETNT -2021)	Five Days International Online Faculty Development Programme	Participated	--	Department of Basic Science, Vishnu Institute of Technology (A), Bhimavaram AP in Association with Physical Research Laboratory, Ahmadabad, Gujarat	09.11.2021 - 13.11.2021
FDP on "Cultivation of Research Excellence to Enhance Innovations and Professional Development"	State	Participated	--	Department of Physics, Panimalar Engineering College, Chennai.	01.11.2021 - 02.11.2021
Workshop on Thin films and Nanomaterials (IWTN-2021)	State	Participated	--	Dept of Physics, Sathyabama Institute of Science and Technology, Chennai in Association with (TNSCST)	09.08.2021 – 20.08.2021
FDP on Innovative Trends in Science and Technology	International	Participated	--	Dept of Science and Humanities, M. Kumarasami College of Engineering, Karur, Tamilnadu.	26.07.2021 - 31.07.2021
FDP on ICT Tools for E-Content Making	National	Participated	--	P.G and Research dept. Of Computer Science, St.Joseph's Collee of Arts and Science (Autonomous), Cuddalore.	27.07.2021 – 28.07.2021
FDP on Emerging Trends in Science and Technology	International	Participated	--	Easwari Engineering College, Ramapuram, Chennai	01.07.2021 - 06.07.2021

FDP on Quality Engineering and Technological Advances in Materials and Devices	National	Participated	--	Dept of Physics, Sharadha University, New Delhi	08.03.2021 - 12.03.2021
Sir C. V. Raman Lecture series on "Advanced Material Science"	National	Participated	--	Ethiraj College for Women (Autonomous ) Chennai	05.03.2021
International webinar on "Advanced Functional Materials"	International	Participated	--	Holy Cross College (Autonomous) Tiruchirappalli	15.02.2021
Nanomaterials for energy and environmental applications	State	Participated	--	Department of Physics Rajapalayam. TN	29.01 2021
Conference on "Recent trends in Accoustics and Material Science"	National	Participated	--	Dept. of Physics, School of Basic Sciences & Research Sharda University Greater Noida New Delhi	28.11.2020 - 30.11.2020
Webinar on "Fuel Cell Technology – Green Energy"	National	Participated	--	PG and Research Dept. of Physics, Sakthi College of Arts and Science for Women, Oddanchatram	15.07.2020
FDP on "Effective & Efficient Online teaching & content Development"	National	Participated	--	Audyogik Tantra Shikshan Sanstha's Institue of Industrial & Computer Management & Research, Maharastra	08.07.2020- 09.07.2020
Webinar on "The Exciting Story of Exoplanets"	International	Participated	--	Dept. of Applied physics, Karunya Institute of Technology and Sciences, Coimbatore	08.07.2020

e- quiz on “Physics in daily Life”	National	Participated	--	PG and Research Dept. of Physics, Sakthi College of Arts and Science for Women, Oddanchatram	03.07.2020- 05.07.2020
Webinar on “Our Cosmic Consciousness”	National	Participated	--	Dept. of Mathematics, Servite Arts and Science College for Women, Thogamalai-621313	29.06.2020
Webinar on “Vision for better post- COVID -19 World”	International	Participated	--	Dept. of History, Servite Arts and Science College for Women, Thogamalai- 621313	30.06.2020
FDP on “E- content Making”	State	Participated	--	Servite Arts and Science College for Women, Thogamalai-621313	22.06.2020- 26.06.2020
Webinar on “Advanced Materials for Biomedical , energy &Environmental Applications”	International	Participated	--	Dept. of Chemistry, PSG College of Arts and Science, Coimbatore	16.06.2020
Webinar on “Trending Technologies Look Beyond 2020”	National	Participated	--	Dept. of Placement & Training, Narasu’s Sarathy Institute of Technology , Salem	16.06.2020
Webinar on “Material Science”	International	Participated	--	Servite Arts and Science College for Women, Thogamalai-621313	13.06.2020 & 16.06.2020
Webinar on “Google’s UI Toolkit”	International	Participated	--	Dept. of Computer Science & Computer Applications, Servite Arts and Science College for Women, Thogamalai-621313	13.06.2020

FDP on “Open source Tool for research”	National	Participated	--	Ramanujan College, University of Delhi, Delhi	08.06.2020-15.06.2020
Webinar on “Recent advances in Material Sciences & Nano Technology”	International	Participated	--	Dept. of Physics, Bannari Amman Institute of Technology, Erode	04.06.2020
Webinar on “Effective usage of ICT Tools for Higher Education”	International	Participated	--	Servite Arts and Science College for Women, Thogamalai-621313	03.06.2020
Webinar on “Organic Material for Solar Cell”	National	Participated	--	Dept. of S&H, Narasu’s Sarathy Institute of Technology , Salem	03.06.2020
FDP on “Invisible Scholars: Students with Learning Disabilities & identification of students with learning Disabilities”	International	Participated	--	IQAC, St. Mary’s College(Autonomous), Thoothukudi	02.06.2020
Webinar on “How to use open educational resources to desire”	National	Participated	--	Dept. of Physics, St. Mary’s College(Autonomous), Thoothukudi	31.05.2020
Webinar on “Career Opportunities in medicare Physics”	National	Participated	--	Dept. of Physics, Parvathy’s Arts and Science College, Dindugal-2	26.05.2020
Online workshop on “Online course design, development and delivery”	National	Participated	--	UGC-human resource development Centre University of Hyderabad Hyderabad-500 046	26.05.2020-28.05.2020

Webinar on “Change is the essence of life”	State level	Participated	--	ICT academy	25.05.2020
Webinar on “History of Nuclear Fission”	National	Participated	--	Dept. of Physics, V.O.C College, Thoothukudi	25.05.2020
Webinar on “Teachers resilience; the blue print for efficiency during uncertainty”	National	Participated	--	St. Mary’s College(autonomous), Thoothukudi	23.05.2020
Webinar on “Micro, Nano Atomic scale approaches in electronic applications”	National	Participated	--	Dept. of Electronics, Erode Arts and Science College, Erode	21.05.2020
FDP on “Teaching using ICT Tools”	National	Participated	--	IQAC, Dept. of BCA and Dept. of IT, JP college of Arts and Science, Ayikudy, Tenkasi-627852	20.05.2020- 24.05.2020
Online workshop on “Effective online teaching methodologies”	National	Participated	--	Dept. of. Commerce, Kamaraj college, Thoothukudi	18.05.2020- 22.05.2020
Webinar on “Bioinformatics in micro biome research & climate, biomes and India”	International	Participated	--	PG department of chemistry(SSC), St. Mary’s college(autonomous), Thoothukudi	16.05.2020
Online workshop on “Nanomaterials for Human Safety and Environment”	National	Participated	--	K.M.E Society’s G. M. Momin Women’s College,	15.05.2020- 16.05.2020

Webinar on “Good teacher to great teacher”	State level	Participated	--	ICT academy	14.05.2020
Webinar on “Virtual learning resources in science teaching”	National	Participated	--	Department of science and humanities, Karpagam institute of technology, Coimbatore	12.05.2020
Webinar on “Selection for appropriate statistical tools: a critical way for successful research”	National	Participated	--	Marian research forum, St. Mary’s college(Autonomous), Thoothukudi	12.05.2020
Webinar on “Psychological first aid”	National	Participated	--	Dept. of Psychology, St. Mary’s college (Autonomous), Thoothukudi	11.05.2020
Webinar series on “The future of skills – education, employment & entrepreneurship”	National	Participated	--	ICT academy	11.05.2020- 15.05.2020
FDP on “Innovation to academician”	National	Participated	--	Ramachandra college of Engineering, Eluru	11.05.2020- 16.05.2020
Webinar on “Role of TVET schools in bridging the gap in workforce development”	International	Participated	--	Colombu staff plan college	08.05.2020
International seminar on “Advanced Materials – INSAM 2018”	International Seminar	Participated	--	Pope’s College, Sawyerpuram	27.02.2018



### Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Evaluation of Sound Velocity and Molar Refraction in Binary Liquid Mixtures through Ultrasonic Measurement	Padmavathi P, Mathana Gopal A, Irudaya Sahaya Lancy A, Krishna Kumar Pandey, Poongodi J, and <b>Jessie Fernando</b>	Macromolecular symposia,	2023	407	--	2200006-1-4
Physico-Chemical Characterization of Ethyl Propionate with Butanol at Different Temperatures Using Ultrasonic Technique	Padmavathi P., Mathana Gopal A., Irudaya Sahaya Lancy A., Krishna Kumar Pandey, Poongodi J., and <b>Jessie Fernando</b>	Macromolecular symposia,	2023	407	--	2200004-1-5
Enactment by computational-structural and by the experimental studies of 2-hydroxyimino-2-(pyridin-2-yl)-N'-[1-(pyridin-2-yl) ethylidene] acetohydrazide – HIPYPYEAH crystalline specimen	M. Rajkumar, <b>Jessie Fernando</b> , K. SenthilKannan, R. Ashok Kumar, R. Divya, P. Saravanan, P. Hari Krishna	AIP Conference Proceedings	2022	2446	--	100027
Vicker's hardness, elastic stiffness, fracture toughness, hardness in mohs scale, young's modulus and yield strength measurement of BaSiF6:Eu2+ phosphors	<b>J. Fernando</b> , P. Padmavathi, K. SenthilKannan, A. R. Kadam, R. Kannan and S. J. Dhoble	AIP Conference Proceedings	2022	2446	--	100035-1-5
Opto electronic	<b>J. Fernando</b> , P.	AIP	2022	2446	--	100036-

filter effectiveness by influx of macro, thin film and nano scalings stress analysis of trapezoidal and spiral coated device characterizations of Eu <sup>2+</sup> doped barium hexafluorosilicate (BaSiF <sub>6</sub> :Eu <sup>2+</sup> ) phosphors	Padmavathi1, K. Senthil Kannan,A. R. Kadam, Samiksha. B. Dhoble, R. Kannan and S. J. Dhoble	Conference Proceedings				1-5
Extortion, anti-bacterial, spectral, band gap and ultrasonic factors of herbal cough syrup and content comparison with commercial samples	P. Padmavathi, <b>J. Fernando</b> , K. SenthilKannan, J. Poongodi, A. M. Ezhil Raj and R.P. Patel	AIP Conference Proceedings	2022	2446	--	100034-1-5
Study of acoustical parameters of bioactive compound with benzyl propionate using ultrasonic technique	P. Padmavathi, S. Irudaya Sahaya Lancy, A. Mathana Gopall, <b>Jessie Fernando</b> , J. Poongodi, Krishna Kumar Pandey and Moses Ezhil Raj	AIP Conference Proceedings	2022	2446	--	100029-1-5
Comparative Analysis of Commercial and Herbal Extorted Cough Syrups in Tamilnadu (South India) Zone - An Investigation by Methodologies of Spectral Way and High Frequency (Ultrasonic) Waves to Predict Samples Efficacy	P Padmavathi, Senthil Kannan <b>K, Jessie Fernando</b> , Poongodi , Vijayalakshmi B, Moses Ezhil raj, Irudaya Sahaya Lancy S	AIP Conference proceedings	2022	2385	--	060001 - 060006

Thermo- acoustic studies of ethyl propionate with propan-2-ol at different temperatures using ultrasonic technique	P Padmavathi, A. Lucas Rexcelin, A. Mathana Gopal, Irudaya Sahaya Lancy S, Krishna Kumar Paney, <b>Jessie Fernando</b> , J. Poongodi ,	Materials Today: Proceedings	Aug 2022	67	2022	821 - 826
Molecular Interaction in Binary Mixtures of Benzyl propionate with methanol at different temperatures: An Ultrasonic study	<b>Jessie Fernando</b> , Jeeva Rani Thangam G , P Padmavathi , Irudaya Sahaya Lancy S , Krishna Kumar Pandey, and Poongodi	Neuroquantology	Dec 2022	20	22	3674-3682

#### As Resource Person

Date	Name of the Institution	Invited As	Topic/Event
20.03.2025	G. V. N. College, Kovilpatti	Chief Guest	College Day
14.02.2025 - 15.02.2025	The Bhopal School of Social Sciences	Chief Guest	International Conference
24.04.2024	APC College for Women, Thoothukudi	Chief Guest	College Day
07.06.2023	St. Ann's School, Thoothukudi	Resource person	Orientation programme for Staff
26.08.2019	St. Philomena's Girls Hr. Sec. School Trichy	Chief Guest	Sport's day
23.03. 2018	Servite College of Arts and Science, Thogaimalai	Chief Guest	College Day
13.04.2017	Annammal College of Education for Women, Thoothukudi	Chief guest	College Day

21.07.2016	Wavoo Wajeeha Women's College of Arts and Science, Kayalpatnam	Chief guest	Inaugural function of college students' union
01.01.2014 - 29.01.2014	New Delhi	Camp Officer NCC Directorate	NCC Republic Day Camp
20.09.2013 - 21.09.2013	Servite Nursing College, Manikandam, Trichy	Resource person	Orientation programme for Staff
07.09.2013 - 16.09.2013	National Engineering College	Camp Training Officer	Camp
24.02.2013 - 25.02.2013	St.Thomas Matriculation School, Thoothukudi	TCI principles & objectives	TCI workshop
30.01.2013 - 03.02.2013	F.X. Engineering College, Tirunelveli and Ruth cohn Institute (RCI) for TCI, India. (Tamilnadu chapter)	Co-facilitated an international workshop	Leading myself & leading groups – Let us discover & experience methods and tools

**Others:**

**Awards received:**

- Received ₹90,000 from the Tamil Nadu State Council for Science and Technology (TNSCST) to conduct Inservice Training for Science Teachers (Reference: TNSCST/INST/2022-23/284).
- Received the Defence Secretary's Commendation Card, a medal and an incentive of Rs.5000 for committed and selfless service rendered in NCC during the year 2013. This award is given from the Ministry of Defence.
- Detailed as contingent ANO for Republic day camp 2014 and participated in the National level Republic day camp held at New Delhi from 1<sup>st</sup> to 29<sup>th</sup> January 2014.
- Received the best women award for the year 2016 honoured by the Tuticorin Multipurpose Social Service Society.

**Responsibilities held:**

- Ethics classes for more than 15 years
- Active member in Fine Arts Committee
- Physics Association
- Conducted quiz for the quiz club members
- Accompanied girls during annual tour

- Member in the Union Staff Advisors Committee
- Member of IQAC
- NCC Officer (2006 – 2014)
- Vice Principal (2008-2009)
- Convener of International Conference on generative leadership
- Controller of Examinations (2010-2013)
- Convener of National Conference on Advanced materials (NCAM–2013)
- Member of organizing committee of International Conference on Solar Energy (INCSE-2015)
- Secretary (2015–2018)
- CAS – Screening Committee – Appointed as Subject Experts in the Department of Physics in VOC College.
- Appointed as a member of Doctoral Committee for the student Ms. P. Yamuna, Department of Physics, Manonmaniam Sundaranar University.
- Member of Board of Studies in Department of Physics, Manonmaniam Sundaranar University, Tirunelveli.
- Convener of International Workshop on Theme Centred Interaction organized by the RCI for TCI India, Chapter of Tamil Nadu, India and Annammal College of Education for Women, Thoothukudi.
- Principal ( 2023)
- Member of Board of Studies in St. Joseph’s College, Tiruchirappalli.
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