



DR. J. SELVI

Designation : Assistant Professor
Department : Physics
Email ID : angelinselvi11@gmail.com

Languages Proficiency

Read : Tamil & English
Write : Tamil & English
Speak : Tamil & English

1. QUALIFICATION

S. No.	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	UG	Physics	Alagappa Govt Arts College, Karaikudi	2003
2.	PG	Physics	Alagappa University, Karaikudi	2005
3.	M.Phil.	Physics	Alagappa University, Karaikudi	2006
4.	Ph.D.	Physics	Hindustan Institute of Technology and Science, Chennai	2020
5.	Certificate	Computer On Office Automation	Department of Technical Education, Chennai	2003
6.	Technical	Type writing (English & Tamil)	Department of Technical Education	2001

2. TEACHING EXPERIENCE / OTHER EXPERIENCE

S. No.	Institution / Organization	From - To
1.	Mount Zion College of Engineering and Technology, Lena Villaku	2006-2008
2.	Hindustan Institute of Technology and Science, Chennai	2011-2022
3.	Fatima College, Madurai	2022-Till Date

3. POSITION HELD IN FATIMA (VICE PRINCIPAL, HOD, DEAN, COORDINATOR, MEMBER ETC.)

S. No.	Name of the Position	From - To
1.	Rosa Extension Activity Member	2022-2025
2.	Quiz Club	2023-24
3.	Discipline Committee Member	2023-25
4.	NSS Program Officer	2023-

5.	Value Added Crash Course In Charge Member	2025
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4. ACHIEVEMENTS

S. No.	Name of the Award	Award Received for	Sponsors / Source	Date
1.	Second Rank	M. Phil Physics	Alagappa University	2006

5. MEMBERSHIP IN PROFESSIONAL / OTHER BODIES / COMMITTEES

S. No.	Name of the Position	Name of the Institution	Duration
1.	Member	Indian Association of Physics Teachers	2011-Till Date
2.	Member	Institute for Engineering Research and Publication	2019-2020

6. AREAS OF SPECIALIZATION

❖ **THIN FILMS, POLYMER NANOCOMPOSITES**

7. ORIENTATION/REFRESHER/TRAINING PROGRAMMES/FDP ATTENDED

S. No.	Programme	Theme	Organized by	Date
1.	FDP	Frontiers in Chemistry (Fc-2020)	St. Joseph College of Engineering	Sep. 16 - 18, 2020
2.	FDP	Advanced Materials for Energy, Environment and Healthcare Applications	Sethu Institute of Technology	June 29 & 30, 2020
3.	Online FDP	Virtual Lab in Physics	B.N.M Institute of Technology, Bengaluru	Feb. 03 - 07, 2021
4.	International FDP	Innovative Mathematical Techniques in Research	Sathyabama Institute of Science and Technology, Chennai	Aug. 01 -06, 2022
5.	Two Week International FDP	Research Perspectives in Mathematics and Its Applications	Sathyabama Institute of Science and Technology, Chennai	July 04 - 07, 2022
6.	FDP	Five Day Induction Programme	Internal Quality Assurance Cell (IQAC), Fatima College, Madurai	Sep. 16 - 20, 2022
7.	Online International FDP	Recent Trends in Applied Physics	Easwari Engineering College, Chennai	July 25 - 30, 2022
8.	FDP	Lasers and Its Applications	National Institute of Technical Teachers Training and Research, Chandigarh	July 18 - 22 , 2022
9.	FDP	Green Hydrogen Technology: Harnessing the Power of Renewables	Department of Chemistry & Crc, Hits	Apr. 20, 2023
10.	FDP	Four Day Induction Programme	Internal Quality Assurance Cell (IQAC), Fatima College, Madurai	Aug 28 - 31, 2023

S. No.	Programme	Theme	Organized by	Date
11.	FDP Online	Advanced Research Methodology in Physical Sciences	Department of Physics, Rajajpalayam	Oct. 03 - 09, 2023
12.	International FDP	Soft Skills for Capacity Building	Joseph's Academy of Soft Skills (Jass)	Sep. 25 - 29, 2023
13.	Winter Course	Scientific Research Practice & Instrumentation Techniques	Department of Science and Humanities Chemistry and Physics, Hindustan Institute of Technology and Science	Dec. 20, 2023
14.	FDP Online	Enhancing Teaching & Learning Competencies of Hei Teachers	St. Ann's Degree College for Women & St. Ann's P. G. College for Women, Hyderabad	May 03 - 09, 2024
15.	FDP Online	Emerging Trends in Advanced Materials and Applications	Prathyusha Engineering College, Thiruvallur	Aug. 27 - Sep. 02, 2024
16.	FDP	Critical & Creative Thinking Skills	Michael Job Memorial College of Education for Women	Aug. 05 & 06, 2024
17.	FDP	Recent Advanced Functional Materials and Sustainable Development	Prathyusha Engineering College, Thiruvallur	Feb. 12 - 17, 2025

8. PAPER PRESENTED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
1.	Seventh National Conference on Solid State Ionics (NCSSI-7)	Bharathiyar University, Coimbatore	June 06 - 08, 2006	Optimization of Reactive Sputtering Gas Pressure Ratio for Tungsten Oxide Thin Films (Wo3)
2.	Third International Conference on Materials for Energy and Nano Convergence (ICMENC 2013)	Hindustan University, Chennai.	July 04 - 06, 2013	Tungsten Oxide Thin Films by Reactive Sputtering Gas Pressure Ratios
3.	National Conference on Advances in Applied Physics and Materials Science in Association with Materials Research Society of India & Ieee Nanotechnology Council	Hindustan University	Jan. 29 & 30, 2016	Synthesis and Characterization of CuO Nanostructures for Solar Selective Absorber Applications
4.	International Conference on Recent Advances in Applied Physics	Annamalai University	Sep 21 - 22, 2017	Studies on Properties of Polyvinyl Alcohol with Cdo Nanocomposites
5.	National Conference on Current Trends in Advanced Materials (NCCTAM 17)	Hindustan University	Feb. 23 - 24	Structural, Melting and Biodegradation Studies on Zinc Dimethacrylate Grafted High Density Poly (Ethylene)

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
6.	International Journal of Emerging Technologies & Innovative Research	Department of Physics, Hindustan Institute of Technology & Science, Chennai	Mar. 02, 2018	Thermal and Electrical Properties of Pva with Metal Oxide Nanoparticles
7.	International Conference on Recent Trends in Synthesis Methods and Material Chemistry (RTSMC-2018)	Annamalai University, Chidambaram	Feb. 02 & 03, 2018	Fabrication of Nano-Sized Metal Oxide Doped Poly (Vinylalcohol) Nanocomposites for Electro-Magnetic Shielding Applications
8.	National Conference on Water, Energy and Environment (Weecon-19)	Hindustan Institute of Technology and Science	Mar. 21 & 22, 2019	Facile in-Situ Low Temperature Synthesis - Structural, Morphological and Optical Characterization of Pva- α -Ni(OH) ₂ Nanocomposites
9.	International Conference on Advanced Materials and their Applications (Icama-2019)	Department of Chemistry, V.O. Chidambaram College, Tuticorin	Dec. 13, 2019	Thermal Properties and Thermal Degradation Kinetic Studies of Pva Nanocomposites
10.	Second International Conference on Advanced Materials & Technology (ICMAT-20)	Sri Jaya chamarajendra College of Engineering, Mysuru	Jan. 16 - 18, 2020	Thermal and Electrical Studies of Pva Based Nanocomposites
11.	Recent Advancement in Material Science and Its Applications (ICRAMSA 23)	Department of Physics, Mannar Thirumalai Naicker College, Pasumalai, Madurai	Jan. 11& 12, 2023	Analysis of Effects of Different Temperatures on Hydroxyapatite Synthesized from Scylla Seratta

9. PARTICIPATED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date
1.	Virtual Summer Workshop on E-Learning Technology and Tools	American Indian Foundation	May 29 & 30, 2020
2.	Virtual Workshop on Scanning Electron Microscope	Sethu Institute of Technology	Oct. 05 & 06, 2021
3.	International Virtual Conference on Materials Research (IVCMR-21)	Easwari Engineering College	Aug. 26 & 27, 2021
4.	National Level Workshop on Recent Trends and Opportunities in Physics (Online)	School of Advanced Sciences, Vit-Ap University	Apr. 10 & 11, 2021
5.	National Workshop on Super Ionic Conductors and Its Applications to Battery, Fuel Cell and Supercapacitor (NSICA 2022)	Department of Physics & Chemistry, Fatima College with Materials Research Center Coimbatore	Dec. 15 & 16, 2022

S. No.	Programme & Theme	Organized by	Date
6.	Dynamic Light Scattering-Zeta Potential and Its Applications	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	Aug. 24, 2024
7.	NPTEL E-Awareness Workshop	NPTEL	Aug. 06, 2024
8.	3 rd International Conference on Advanced Functional Materials 2024	SSN College of Engineering	
9.	DST-FIST Sponsored National Conference on “Partnering for Progress: The Industry-Academic Nexus”	Department of Physics, Chemistry, Zoology, Homescience, Computer Science, Fatima College, Madurai	Jan. 09, 2025

10. ARTICLES PUBLISHED IN JOURNALS/PROCEEDINGS/MAGAZINES/BOOKS

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month/Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
1.	Journal of Inorganic and Organometallic Polymers and Materials	Synthesis, Structural, Optical, Electrical and Thermal Studies of Polyvinyl Alcohol/Cdo Nanocomposite Films	2017	27	6	1918-1926	-	Springer
2.	Polymer Composites	Optical, Thermal, Mechanical Properties and Non Isothermal Degradation Kinetic Studies on Pva/Cuo Nanocomposites	2019	40	9	3737-3748	-	Wiley
3.	Polymer Composites	Enhancement in Thermal, Mechanical and Electrical Properties of Novel Pva Nanocomposite Embedded with Sro Nanofillers and the Analysis of Its Thermal Degradation Behaviour by Nonisothermal Approach	2019	41	4	1277-1290	-	Wiley
4.	Iranian Polymer Journal	Optical, Electrical, Mechanical, Thermal Properties and Non-Isothermal Decomposition Behaviour of Poly (Vinyl Alcohol)- ZnO Nanocomposites	2020	29	5	411-422	-	Springer
5.	Polymer Bulletin	Evaluation of Mechanical, Optical, and Thermal Properties of Pva Nanocomposites Embedded with Fe2o3 Nanofillers and the Investigation of Their Thermal Decomposition Characteristics Under Non-Isothermal Heating Condition	2021	78	4	2191-2210	-	Springer
6.	International Journal of Chemtech Research	Tungsten Oxide Thin Films by Reactive Sputtering Gas Pressure Ratios	2015	8	6	257-263	-	Asian Publication, Sphinxsai
7.	World Review of Science, Technology and Innovation for	One Step Low Temperature Synthesis of Pva Stabilised α -Ni(OH) ₂ Nanoparticles –	2021	17	2-3	144-152	-	Inderscience

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month/Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
	Sustainable Development	Structural, Morphological and Optical Studies						
8.	Optical Materials	Improving Selectivity of Thin Film Solar Absorber by Cobalt Oxide Grafted Reduced Grapheme Oxide	2023	138	-	113629	-	Elsevier
9.	3 rd International Conference on Advanced Functional Materials 2024- Proceedings	Enhanced Photocatalytic Degradation of Rhodamine B using A New Bio nano composite Thin Film Based on Carbon Nanotubes/Chitosan/Pva/Tio2	2024		-	76	-	-
10.	Chemistry Select	Solar to Thermal Energy Conversion Potential of Carbon Nanotubes Modified Copper Oxide Nanocomposite Thin Film Solar Selective Absorbers	2024	9	27	E202401042	-	Wiley

11. ANY OTHER

- Completed 23 Coursera Courses, 30 Online Webinars from Various Institutions