

RESUME



Dr. D. DEVA JAYANTHI
Assistant Professor
Department of Physics
Rani Anna Govt. Arts College for Women
Tirunelveli
TAMIL NADU

PERSONAL DETAILS

Qualification : M.Sc., M.Ed., PGDCA., M.Phil., Ph.D
Designation : Assistant Professor
Department : Physics
Community : BC
Religion : Christian
Nationality : Indian
Marital Status : Married
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ACADEMIC QUALIFICATIONS				
Degree	Specialization	College	University	Year of Passing
UG	Physics	Women's Christian College Nagercoil.	Madurai Kamaraj	1988
PG	Physics	Scott Christian College, Nagercoil.	Madurai Kamara	1990
B.Ed	Physical Science	Lady Willington College of Education, Chennai.	Madras University	1991
PGDCA	Computer Applications	Mother Teresa Women's University, Kodaikanal.	Mother Teresa University	1992
M.Ed	Physical Science	Madurai Kamaraj Univerity	Madurai Kamara	1993
M.Phil.	Physics	Scott Christian College, Nagercoil.	M.S University	2007
Ph.D	Physics	S.T Hindu College	M.S University	2012

TEACHING EXPERIENCE

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		
		From	To	Years
PG and M.phil	Women's Christian College , Nagercoil PG Department of Physics	1-7- 2005	28- 7-2015	10
			M.Phil	3
UG and PG	Meenakshi Govt. College, Madurai.	29- 7- 2015	12-6-2017	2
UG and PG	Rani Anna Govt. College, Tirunelveli.	13-6-2017	Till date	6

ORIENTATION / REFRESHER COURSES UNDERGONE (3)

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1.	Orientation Course	UGC - HRDC	Madurai Kamaraj University, Madurai. 20-4-2017 to 17-5-2017
2.	Refresher Course in PHYSICS	UGC - HRDC	Bharathidasan University. Tirichy. 23-10-2019 to 5-11-2019
3.	Refresher Course in PHYSICS	UGC - HRDC	Pondicherry University, Pondicherry. 4-8-2021 to 17-8-2021

RESEARCH WORK GOING ON - Ph.D

S.No	Name & Reg. No.	Topic	Status
1	Anitha M 21211172132007	Assessment of Natural Radiation due to indoor Radon and Thoron Concentrations in and around the Residential Areas of Coastal Villages of Tirunelveli District, by using SSNTDs.	doing
2.	Jancy D 22221172132004	Investigation on Some Amino Acid Based Single Crystals for Various Applications.	doing
3.	Benifa A	Synthesis, experimental and theoretical analysis of metal and metal doped metal oxide nanoparticles for biomedical applications.	Registered

M.Phil Projects Guided

Name of the University : Manonmanium Sundaranar University, Tirunelveli

S.No	Year	Title	Name of the Student & Reg. No.
1	2009	Growth and study of gel grown strontium tartrate single crystals	Virgin Brintha S Reg. No:8111288
2	2010	Growth and characterization of calcium doped barium tartrate mixed crystal	S Princy Reg. No:9111284
3	2011	Growth and characterization of calcium doped cadmium tartrate mixed crystals grown in silica gel	Mary Shylaja Reg. No:11011897
4	2012	Study of molecular interactions in N-N dimethyl formamide-propionic acid system using ultrasonic waves	R. P. Jebin Reg. No:01013769
5	2012	Growth and characterization of barium oxalate single crystals	N. Shyni Reg. No:01013771
6	2013	Molecular interaction studies on the binary liquid mixture of methanol and aniline by using ultrasonic velocity measurements	N. S. Sony Reg. No:21011934
7	2014	Ultrasonic analysis of molecular interactions in binary liquid mixtures of Glycerol with N-N Dimethyl acetamide	D. Amal Shalini Reg. No:31011460
8	2014	Characterization of zinc oxalate single crystals grown in silica gel	Arul Ancy Reg. No:31011462
9	2015	Ultrasonic study of acetophenone with benzene	R. Godwini Reg. No:41011495

Papers Published:

<i>S.No</i>	<i>Title of the paper</i>	<i>Journal with page No</i>
1.	Impact of Protonation and Hydrogen Bonding Interactions on the Biological Properties of Antibacterial Compound 4-Dimethylaminopyridinium Salicylate Monohydrate: Correlation with its Precursor Molecules.	Polycyclic Aromatic Compounds (2022)
2.	Consequence of Proton Transfer and Hydrogen Bonding Interactions on the Molecular, Vibrational and Biological Properties of the Novelty Synthesized Antibacterial Compound bis-(4-Dimethylaminopyridinium) bis-(3, 5-Dinitrobenzoate) Monohydrate using DFT Study	Journal of Molecular Structure IF: 3.196 (2022)
3.	Computational Insights on Charge Transfer and Non-Covalent Interactions of Antibacterial Compound 4-Dimethylamino pyridinium Pyridine-2-Carboxylate Penta hydrate	Journal of Molecular Structure (IF : 3.196)(2022)
4.	Probing into the Outcome of Charge Transfer Interactions and Hyperconjugative Effect on the Antibacterial Molecule 4-dimethylaminopyridine using Spectroscopic Elucidations and DFT Calculations	Journal of Molecular Structure (IF : 3.196) (2022)
5.	Tuning the Computational Evaluation of Spectroscopic, ELF, LOL, NCI analysis and Molecular Docking of Novel Anti COVID-19 Molecule 4-Dimethyl amino Pyridinium 3, 5-Dichlorosalicylate	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy IF:4.098 (2022)
6.	Insights into Weak and Covalent Interactions, Reactivity sites and Pharmacokinetic Studies of 4-Dimethylaminopyridinium Salicylate Monohydrate using Quantum Chemical Computation method	Computational and Theoretical Chemistry IF:1.926
7.	A Comprehensive study in the quantum chemical computation of 3,5-Dichlorosalicylic Acid 4-Dimethyl amino Pyridine	Studies in Indian place Names,
8.	Structural determination of sodium oxalate single crystals grown in silica gel	RAC Journal of research (2018) 16(1): 61-65
9.	Estimation of annual effective dose due to external and internal exposure in the residents of coastal villages of K.K.district, TamilNadu, India.	International Journal of Low Radiation (2017) 10(4): 324 – 330 IF 0.2
10.	Estimation of ingestion dose through drinking water by the residents of south west coastal villages of Tamil Nadu, India.	Journal Basic and applied biology. (2016) 1(1):19-21
11.	Natural radioactivity measurement in wetlands bordering the Hillocks of western ghats, kanyakumari district, Tamil Nadu, India	Plant Archives (2015), 15(1); 509-512
12.	Measurement of activity concentration of radionuclides and the committed annual effective dose due to the consumption of typical south Indian meal	International Journal of Low Radiation (2014) 9(3): 181 – 188 IF 0.2
13.	Radiological indices and effective dose derived from marine beach mineral sand deposit prevailing in the south west coastal regions of India	Radiation protection and environment (2013) 35(1) 25:4-8

14.	Assessment of indoor radiation dose received by the residents of natural high background radiation areas of coastal villages of Kanyakumari district, Tamil Nadu, India.	Journal of Radiation Physics and Chemistry (2012) 80:782-785 IF 1.375
15.	Gross alpha and gross beta activity concentrations in drinking Water collected from bore wells of southwest coastal villages of Tamil Nadu, India.	Journal Basic and applied biology. (2011) 5(1):85-88
16.	Crystal structure and thermal characterization of cadmium oxalate and barium doped cadmium oxalate single crystals grown in silica gel.	Inorganica Chimica Acta.(2009) 326:1535-1540 IF 1.687
17.	Growth aspects of barium oxalate monohydrate single crystals in gel medium.	Crystal Research and Technology (2008)43(12) 1307-1313, IF 0.92
18.	Optimized growth and characterization of cadmium oxalate single Crystals in silica gel.	Solid state sciences.(2008) 10:557-562 IF 1.67

Paper Presented:

S.No	Date	Topic	College
1	16-03-2023	Interesting facts about Radon and Thoron	National Conference on Recent Trends in Physics-2023 Sri Sarada College for Women, Tirunelveli.
2	22 nd February 2019	Acoustical study for the binary liquid mixture of Acetone and Toluene <i>ISBN: 978-93-5361-340-2</i>	International conference on Recent perspectives in research
3	23 rd February 2017	Growth and study of gel grown strontium tartrate single crystals <i>ISBN : 978-93-528848-2-7</i>	National conference on Exploring the Plethora of Research WCC- Nagercoil
4	6 th January 2017	Growth kinetics of Barium doped cadmium oxalate single crystals grown in silica gel <i>ISBN 819331402-6</i>	International conference on Recent trends in Materials science and applications; Sri Meenakshi Govt Arts College - Madurai
5	27 th April 2016	Study of acoustical parameters in the binary liquid mixture of diesel and kerosene using ultrasonic technique.	Frontier areas in Applied Physics Annamalai University, Tamil Nadu.

6	13 th March 2015	Ultrasonic study of acetophenone with benzene ISBN978-81-910747-9-6	National seminar on digital world WCC
7	20 th February 2015	Excess acoustical studies of benzene with acetophenone at three different temperatures ISBN 978-81-928007-2-1	Emerging trends in applied Physics Lekshmpuram College of Arts and Science- Neyyoor.
8	19 th February 2015	Molecular interaction studies in Binary liquid mixtures of acetophenone with benzene using Ultrasonic technique	Recent trends and advances in physics MDT Hindu College Tirunelveli
9	8 & 9 January 2015	Study of molecular interaction in petrol with Diesel for various concentration at room temperature ISBN 978-81-929308-2-4	Emerging trends in theoretical and experimental Physics in Sree Ayappa college, Nagercoil.
10	22&23 August 2014	Study of molecular interactions in the binary liquid mixtures of glycerol with n,n dimethyl acetamide using excess acoustic parameter for various temperatures. ISBN 978-93-81658-10-9	Ninth all India conference of KAAS in Sree Ayappa college, Nagercoil.
11	22&23 August 2014	Electrical conductivity, Dielectric study and the structural characterization of gel grown zinc oxalate single crystals. ISBN 978-93-81658-10-9	Ninth all India conference of KAAS in Sree Ayappa college, Nagercoil.
12	4 th & 5 th April 2014	Ultrasonic analysis of molecular interactions in the binary liquid mixtures of Glycerol with N-N-Dimethyl acetamide ISBN-13,9788190924092	National Conference in advance materials and its applications, Annamalai University, Tamil Nadu.
13	Feb 14, 2014	Molecular interaction in binary liquid mixture of methonal and aniline. ISBN- 978-81-910747-7-2	National Conference on “Future Prospects in Multidisciplinary Research” W.C.C,Ngl.
14	March 11,2013	Growth and characterization of Zinc oxalate single crystals. ISBN 978-81-91074741	National Conference on Multi Disciplinary Research An Indian Scenario, W.C.C
15	17- 02- 2012	Growth and characterization of cadmium malate single crystals grown by silica gel method.	National Conference on Recent Trends in Arts , Science and Management,

		ISBN-978-81-91074734	W.C.C. Nagercoil
16	1 st and 2 nd Sep. 2011	Growth and characterization of Strontium Malate Single crystals. ISBN-13:978-81-90853880	Exploring the frontiers of vibrational spectroscopy, W.C. C. Nagercoil.
17	April 2, 2011	Structural characterization of Gel grown calcium malate single crystals.	Scott Research Forum, S.C.C Nagercoil.
18	January 7-9, 2010	Distribution of natural radioactive content in beach sands of south west coast of k.k district.	Recent and emerging developments in Physics, W.C.C, Ngl. Nagercoil
19	January 7-9, 2010	Growth and XRD characterization of barium tartrate single crystals grown in silica gel.	Recent and emerging developments in Physics, W.C.C, Ngl .
20	January 7-9, 2010	Structural characterization of calcium tartrate single crystals grown in silica gel.	Recent and emerging developments in Physics, W.C.C, Ngl.
21	25.3.2009	Structural characterization of strontium oxalate crystals.	Fatima Matha National College, Kollam.
22	23.3.2009	Growth and characterization of strontium copper oxalate mixed crystals.	Jayaraj Annapackiam College, Periyakulam.
23	26.2.2009 & 27.2.2009	Growth kinetic of strontium oxalate crystals grown in silica gel.	Malankara Catholic College, Mariagiri.
24	4.2.2008 & 5.2.2008	Effect of Barium doping in crystal growth of cadmium oxalate single crystals.	Department of Physics M.S.University.
25	21,22 & 23.12.2007	Growth, structure, thermal electrical properties of single crystals of Barium Oxalate.	SSN College of Engineering , Chennai.
26	21.9.2007	Preparation and characterization of co-precipitates of cadmium barium oxalate single crystals.	Vivekanandha college, Elayampalayam.
27	1 .9.2007	Growth and characterization of barium oxalate monohydrate in silica gel.	Aditanar college , Tiruchendur.
28.	30 th Nov & 1 st Dec 2007	Growth kinetics of cadmium and barium doped cadmium oxalate crystals in silica gel.	S.C.College, Nagercoil.
29.	14.8.2007	Growth and characterization of cadmium oxalate crystals	S.C.College, Nagercoil.

Seminar/Webinar Attended:

S.No	Date	Webinar	Organizers
1.	27-6-2022	Educational Framework for Global Citizenship.	UGC – HRDC Bharathidasan University
2.	28-6-2022	Internationalization of Higher Education.	UGC – HRDC Bharathidasan University
3.	24-1-2022 &25-1-2022	Two Day Online Faculty Development Programme on Condensed Matter Physics”	Jamal Mohamed College(Autonomous), Tiruchirappalli.
4.	29-6-2022	Academic and Research Integrity.	UGC – HRDC Bharathidasan University
5.	30-6-2022	National Skills Qualification Framework.	UGC – HRDC Bharathidasan University
6.	17 th & 18 th May 2021	Quality Concerns in Educational Research	Annamalai University
7.	7-6-2021	Magnetic Smart Materials	NMCC Marthandam
8.	24-6-2021	Quiz – Nanoscience and Nanotechnology	Govt. Arts College- Tirichy.
9.	1-7-2021	The Dark Side of the Universe	Karunya Institute - Coimbatore
10.	6-7-2021	Zoonotic Diseases – Prevention and Control.	Bharathi Women’s College, Chennai.
11.	22-7-2021	Twinkle Twinkle little Star- Astronomy and Astrophysics	Karunya Institute - Coimbatore
12.	27-7-2021, 28-7-2021	Advances in Physics	Holy Cross College Nagercoil.
13.	21/8; 23/8 & 24/8/2021	Recent exploration in complex systems, dimensions and Atomic Physics	Sarah Tucker College, Tirunelveli.
14.	31-8-2021	Artificial Intelligence	UGC-HRDC Bharathidasan University
15.	20-9-2021	Career aspects in Physics	Vivekananda College Agasteeswaram.
16.	11-10-2021	Prospectives of Thermoelectric Materials	Condavaru Kandaswami Naidu College, Chennai.
17.	26-10-2021	Impact of shock waves on Materials , an Introduction.	Vellaichamy Nadar College – Madurai.
18.	1-6-2020 to 4-6-2020	Solid State Physics	University of Madras, Department of Theoretical Physics
19.	21-6-2020	Nanophotonics	Lekshmpuram College of Arts and Science.
20.	24-6-2020	Recent Trends in Physics of Materials.	Pachaiyappa’s College, Chennai.
21.	25-6-2020	Spectroscopy	Lekshmpuram College of Arts and Science.
22.	26-6-2020	How to fight against Covid-19.	St. John’s College Palayamkottai. 8
	29-6-2020 to 4-7-2020	Digital Pengal	Karpagam College of Engineering , Coimbatore.

23.	3-7-2020	Nano crystals for LEDs	Thiagarajar College Madurai.
24.	6-7-2020	Gender Sensitization -Transgender	Aditanar College of Arts and Science, Tiruchendur.
25.	8-7-2020	Exciting story of Exoplanets.	Karunya Institute of Technology and sciences, Coimbatore.
26.	9-7-2020	Nature and Physics	MGR Govt. Arts and Science College, Palacode.
27.	10-7-2020	Cyber Crime against Women and children.	Rani Anna Govt. College, Tirunelveli.
28.	15-7-2020 to 18-7-2020	Sustainable Novel Nano materials and its applications.	Sri Meenakshi Govt. College Madurai.
29.	21-7-2020 to 25-7-2020	Medical and Radiation Physics	WCC Chennai
30.	3-8-2020 to 5-8-2020	FDP on Spectroscopic Techniques	Jamal Mohamed College-Trichy.
Seminar			
31.	8-3-2019	National seminar on Women in Biodiversity	WCC, Nagercoil.
32.	6-2-2019, 7-2-2019	National conference on issues and innovative initiatives towards vital, viable and value bound quality Higher Education.	Saratha College for Women, Tirunelveli.
33.	25-10-2018, 26-10-2018	Two days faculty development program on Research Methodology.	Rani Anna Govt. College, Tirunelveli.
34.	27-8-2018, 28-8-2018	Faculty development program on creative thinking	ICT academy at WCC Nagercoil.
35.	20-1-2018, 21-1-2018	Refresher course on Physics	MS University, Tirunelveli
36.	15-9-2017	One day orientation programme for college Teachers	MS University, Tirunelveli.
37.	9-3-2017	UGC sponsored workshop on Mechanics of thesis writing and uses of SPSS	Sri Meenakshi Govt. College, Madurai
38.	15-2-2017	National conference on Achievements in space science and Astrophysics	Sri Meenakshi Govt. College, Madurai
39.	10-2-2017	National level seminar on Innovative Applications of Nanomaterials.	Holy Cross College Nagercoil.
40.	20-12-2016, 21-12-2016	National level workshop on Human Rights-prospects and challenges.	Sri Meenakshi Govt. College, Madurai
41.	19-9-2016, 20-9-2016	Recent Advancements in advanced Materials - International conference	Ananda College – Devakottai.
42.	2-9-2016	National level seminar on Nuclear power – green energy for green future.	Pioneer Kumaraswamy College – Nagercoil.
43.	18-3-2016	National level workshop on Data Analysis using SPSS	Sri Meenakshi Govt. College, Madurai
44.	April 11, 2014	National Conference on “ Women’s and society – Trials and Triumphs”	Women’s study centre – WCC

45.	April 4, 2014	National Conference on “Women and Human Rights”	Department of History
46.	Feb 14, 2014	National Conference on “Future Prospects in Multidisciplinary Research”	Research Forum, WCC
47.	Feb. 10-15, 2014	National Workshop on Radiochemistry and the Applications of radioisotopes	IANCAS BARC
48.	Feb 7, 2014	National seminar on Emerging threats to Human health	WCC
49.	Aug 29, 2013	National Seminar On Environmental Degradation	W.C.C
50.	Aug 7, 2013	Work Shop On Women And Stress Management	Women’s Studies Centre
51.	March 11,2013	National Conference on Multi Disciplinary Research An Indian Scenario	W.C.C Research Forum
52.	Feb 14,2012	National Conference On Women’s Potential	Women’s StudiesCentre
53.	Feb 17, 2012	National Conference On Recent Trends In Arts, Science And Management	W.C.C Research Forum
54.	Sep 1&2, 2011	National Conference On Exploring The Frontiers Of Vibrational Spectroscopy	Department of Physics & Research Centre,W.C.C
55.	Apr2,2011	Eighth All India Conference Of SRF	Scott Research Forum
56.	Nov 8, 2011	Centre For Gandhian Studies	W.C.C
57.	Feb 15, 2011	National Seminar On Radiation Detection And Measurement	Holy Cross College
58.	Jan 19, 2010	Natural Radioactivity	S.T Hindu College
59.	Jan 7,8 & 9,2010	National Conference On Recent And Emerging Developments	Department of Physics, W.C.C
60.	Feb 26&27, 2009	National Seminar On Crystalline Materials And Nanotechnology	Malankara Catholic College
61.	Oct 1, 2009	Recent Developments In Crystal Growth And Nanotechnology	Department of Physics, Holy Cross College
62.	Oct 10, 2009	National Seminar On Recent Advances In Chemical Science And Technologies	Department Of Chemistry, W.C.C
63.	Mar 23&24 , 2009	National Conference On Recent Trends Physics	Jaya raj Annapackiam College for Women
64.	Dec 11 , 2008	Baseline Studies On Kudankulam Environment	Scott Christian College
65.	Mar 28, 2008	SAPP On Communication Physics	Department of PG Physics, W.C.C
66.	Jan 25 , 2007	Advances In Physics	Department of Physics, M.S University
67.	Aug 14 , 2007	Fourth Multi-Disciplinary National Seminar Of SRF	Scott Research Forum
68.	Nov 30 &Dec 1, 2007	Fourth All India Conference of KAAS	Scott Research Forum
69.	Mar 8, 2006	SAPP On Nuclear Radiation	P.G Department of Physics, W.C.C
70.	Aug 14,	Third Multi-Disciplinary National Seminar	Scott Research Forum

	2006	Of SRF	
71.	Oct 15, 2005	State Level Seminar On The Inventions Of Albert Einstein	Scott Christian College
72.	Oct 27& 28 , 2005	Self Renewal Programmers On Effective Classroom Communication	W.C.C
73.	May 2,3 & 4, 2005	SACP On Intensive training Programmer On +2 Physics Practical's	Scott Christian College
74.	Sep 2, 2005	State Level Seminar On NLO Materials	Department of Physics, Sivanthi Aditanar college

Date : 09-04-2023

Name : D.Deva Jayanthi