

J Roselin Jeyaseeli
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WORK EXPERIENCE

- Working as an Assistant Professor of Physics, Holy Cross College, Trichy, from 2016 to till date (**8 Years**)

PROFESSIONAL QUALIFICATION

- Qualified SET (State Eligibility Test) - 2016
- Ph.D. Pursuing

LEADRESHIP PROFILE

- NACC visit – Student Support & Progression details (6 Years)
- Association Secretary (2017-2018)
- Alumnae Incharge (2018-2020)
- PTA Incharge (2018-2020)
- Fine arts Incharge (2016-2017)
- Magazine Incharge (2017-2019)
- Time table (2018-2019)
- Internal Examination (2020-2021)
- Syllabus & Question paper (2021-2022)
- Sports Incharge (2022-2023)
- Association Secretary (2023-2024)

EDUCATION

Examination	Discipline/ Specialization	School/ College	Board/ University	Year of Passing	Percentage %
M.Phil.	Physics	Bishop Heber College, Trichy.	Bharathidasan University	2011	84
M.Sc.	Physics	Holy Cross College, Trichy.	Bharathidasan University	2009	84.3
B.Sc.	Physics	Holy Cross College, Trichy.	Bharathidasan University.	2007	84.1

PROFESSIONAL SUPPORTIVE COURSES

Examination	Discipline/ Specialization	School/College	Board/ University	Year of Passing
PGDEA	Educational Administration	Bharathidasan University, Trichy	Bharathidasan University	2013
M.Ed	Education	Bharathidasan University, Trichy	Bharathidasan University, Trichy	2013
B.Ed	Education	Government College of Education, Pudukkottai.	Tamilnadu Teacher Education University	2010

PROJECT

- M.Phil. - Crystal Growth - Investigations on Structural, Optical and Thermal Properties of LAO and LAS Single Crystals.
- M.Sc. - Liquid State Physics - Acoustical studies of PVA in Toluene at Various Temperatures.
- M.Ed. - Evaluation of Continuous and Comprehensive Evaluation at Primary Education in Tiruchirappalli District

RESEARCH EXPERIENCE

- Pursuing Ph.D.
- Materials Science –Nanomaterial and its applications
- Preparation of metal oxides nanomaterials using Co-precipitation & Hydrothermal synthetic routes for photocatalytic dyedegradation, non-linear optics and biological applications.

RESEARCH GUIDANCE

- UG - 38 Students
- PG - 11 Students

PAPERS PUBLICATIONS

1. J. Roselin Jeyaseeli , P. Jaikumar , T.C. Sabari Girisun , A. Philominal , Third order nonlinear optical properties of undoped and Bi-doped ZnO-ZrO₂ nanocomposites, Journal of Molecular Structure, 1321 (2024), 139918,4.0, SCI indexed journal. <https://doi.org/10.1016/j.molstruc.2024.139918>
2. J. Roselin Jeyaseeli , A. Philominal, P. Jaikumar , Varuna Kumarave , Senthil Kumar Sadasivam, Band Gap Tuning of Ce – Doping in Zn:Zr System for Enhanced Visible Light Driven Photocatalysis , Band gap tuning of Ce doping in Zn:Zr system for enhanced visible light-driven photocatalysis. J Mater Sci: Mater Electron 35, (2024) 2016, 2.8, SCI indexed journal. <https://doi.org/10.1007/s10854-024-13734-7>

PAPERS PRESENTED IN INTERNATIONAL/NATIONAL/ STATE LEVEL CONFERENCES

Sl. No	Name of the Paper	Name of the Conference	Place	Duration
1.	Antimicrobial Studies of Zinc Magnesium Oxide Nanocomposite by co-precipitation method	International Conference on Recent Advances in Physical Sciences (ICRAPS - 2024)	School of Physical Sciences, Holy Cross College, Trichy-2.	19 th – 20 th January 2024
2.	Effect of Antimicrobial activity of zirconium Oxide Nanoparticles by Co-Precipitation Method	International Conference on Recent Advances in Physical Sciences	School of Physical Sciences, Holy Cross College, Trichy-2.	19 th – 20 th January 2024
3.	Effect on dye degradation and antimicrobial activity of Zinc magnesium oxide nanocomposite by co-precipitation method	International conference on Solar water splitting and bioapplication	Madurai Kamarajar University, Madurai	5 th – 7 th June 2023
4.	Photocatalytic activity of zinc magnesium nanocomposite material	International conference on nanophotonics	Holy Cross College, Trichy-2.	7 th – 8 th March 2023

5.	Pure and Bi doped Zinc Zircoate nanocomposites for industrial and medical applications	International Conference on Functional Materials for Energy, Environment and Biomedical Applications	Bishop Heber College Tiruchirappalli	4th -6th May 2022
6.	Growth, Spectral, Optical, Thermal & Mechanical Properties of a Semi organic single crystal: Cytosinium Benzoate	International Conference on Recent Advances in Materials Science ICRAMS	National College Tiruchirappalli	4th – 6th February 2019
7.	Growth and characterization of nonlinear crystals: 2-Amino 5-chloro peridinium L- tartrate	National Conference	Jamal Mohammad College Tiruchirappalli	4th March 2019
8.	Preparation of e-content on PN-junction diode at tertiary level	National Level Seminar NACC sponsored	Indra Ganesan College of Education Tiruchirappalli	January 2014

INTERNATIONAL/NATIONAL/STATE LEVEL WORKSHOPS AND SEMINARS ATTENDED

Sl.No	Name of the Conference/ Seminar / Workshop	Place	Duration
1.	Five – day online Faculty Development Program on Multidisciplinary Approach on Nanotechnology	Department of Chemistry ,Vellar College for Women,Erode-12	23 rd -27 th September 2024
2.	Emerging Trends in Nanomaterials for Electronic and Optoelectronic Devices	Swarnanadhra College of Engineering & Technology,JNTU K,Kakinada	10 th -15 th May 2021
3.	Online – Short term Training Course on X-ray Diffraction : Theory, Methods and Workflow (XRD 2021)	Maulana Azad Institute of Technology, Bhopal	6 th – 15 th September 2021
4.	Virtual workshop on Advanced Characterization Techniques and Computational Modelling	Holy Cross College Tiruchirappalli	27 th Sep – 1 st Oct 2021
5.	FDP on Physics & Technology of Materials	Srinivasan College of Arts & Science, Perambalur	3 rd – 5 th June 2020

6.	Webinar Series on Seed And Weed- Nurturing Relationships	Holy Cross College Tiruchirappalli	2 nd June 2020
7.	Tetrahertz Spectroscopy: Forbidden gap Transforming into an advanced Application	Holy Cross College Tiruchirappalli	9 th June 2020
8.	Webinar on Obesity and its role in Breast Cancer	Holy Cross College Tiruchirappalli	6 th June 2020
9.	STRIDE Tutorial on Trans disciplinary Research	Holy Cross College Tiruchirappalli	11 th June 2020
10.	Webinar on Art of Writing Scientific Articles and Project Proposals	Holy Cross College Tiruchirappalli	22 nd May 2020
11.	Webinar on Do's and Don'ts in Scholarly Writing	Library and Information Science, Alagappa University , Karaikudi	18 th May 2020
12.	Webinar on Everything Started with Nothing – Make a Start (IIC)	Holy Cross College, Tiruchirappalli	13 th May 2020
13.	Five days free online Workshop for Teachers: Introduction to Animation, Creation of Animated Object, Interactive Animation & Evaluation	Universal Teachers Academy, Puducherry	14 th to 18 th May 2020
14.	FDP on Nanomaterials for Energy Harvesting and Biomedical Applications	Godavari Institute of Engineering and Technology , Rajamahendravaram, Andrapradesh	18 th – 22 nd May 2020
15.	Webinar Series on Material Science: Webinar Series 1	Sathayabama Institute of Science and Technology	18 th – 23 rd May 2020
16.	Webinar on National Digital Library of India User Awareness	MHRD / Holy Cross College, Tiruchirappalli	22 nd May 2020

17.	FDP - Recent Trends in Nano Science	RMD Engineering College, Tiruvallur	13 rd – 14 th May 2020
18.	National Webinar Entitled Research Publication: Skills, Ethics and Misconducts	Kumarguru College of Technology, Coimbatore	15 th May 2020
19.	Webinar series on Conceptual and Applied Physics	RK University & Saurashtra University, Rajkot	5 th – 8 th May 2020
20.	10 days free Online Workshop for Teachers: Creation of E- Content , Interactive E- Content & Uploading the E- Content on the Web.	Universal Teachers Academy, Puthucherry	21 st – 30 th April 2020
21.	Level Your Proficiency in English	International Journal of Advance Study and Research Work	24 th – 25 th April 2020
22.	National Webinar on “ICT Enabled Higher Education in India : Challenges and Opportunities”	Guru Angad DevTeaching and Learning Centre, SGTB Khalsa College, University of Delhi/ MHRD	15 th April 2020
23.	National Webinar on “Development of Higher Education in India :An Overview”	Guru Angad DevTeaching and Learning Centre,SGTB Khalsa College,University of Delhi/MHRD	9 th April 2020
24.	Awareness Campaign Seminar on Nanotechnology	Anna University, Chennai	December 2009
25.	State Level Lecture Workshop on Frontier Topics in Physics	Bishop Heber Tiruchirappalli	2008

TEACHING SKILLS

- Physics curriculum - Learning Outcome Based Framework (LOCF)
- Physics curriculum – Bloom’s Taxonomy
- Familiar with Laboratory equipment and Procedures
- Using ICT tools for effective teaching
- Remedial Coaching for students

TECHNICAL SKILLS

- E-Learning – Content Development
- SMART board interactive displays
- Familiar in Online Classes (Google Meet, Zoom Meet & Teach mint)
- Microsoft Word, Microsoft Excel and Power point

CERTIFICATIONS

- The course “Solar Photovoltaics Fundamentals, Technology and Applications” conducted by “NPTEL-AICTE”.
- National Graduate Physics Examination (NGPE).
- Participated in 10 days Workshop on Nano Science and Technology conducted by Anna University & Science City, Chennai.
- Creating Story board, Smart Tools, Animation, Test conducting tools and App development by Universal Teacher Academy.

EXTRA CURRICULARS

- NSS volunteer
- Program Organizer
- Participated in Trichy Mini Marathon and Awareness Programs
- Won prizes in interdepartmental essay writing competitions and sports

DECLARATION

The details furnished above are true and genuine with the best of my knowledge and belief.