



Ms. Dana Jose

Assistant Professor · Department of Physics

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PROFILE	Teaching focused on imparting in depth knowledge and promoting interest in pure Physics especially in branches like Electrodynamics, Mathematical & Computational Physics , Mechanics and Optics. Currently pursuing research is Perovskite Solar cell Technology.	
APPOINTMENT	Joined 03 September 2013 · Teaching 14 years · Research 5 years	
SPECIALISATION	Renewable Energy	
RESEARCH INTERESTS	Perovskite Solar Cells	
COURSES HANDLED	Electrodynamics · Mathematical Physics · Computational Physics · Spectroscopy	
LABORATORIES	Mechanics · Optics · Opto-electronics	
QUALIFICATIONS	M.Sc — Physics St. Berchman's College, Changanacherry, Mahatma Gandhi University, Kottayam First rank	2011
EXPERIENCE	Assistant Professor St.George's College, Aruvithura · Teaching FDP substitute lecturer SD College , Alappuzha · Teaching	September 2013 – Present June 2012 – September 2013
JOURNAL PAPERS	[1] Dana Jose, Aparna Thankappan, Sabu Thomas, “Design and efficiency optimization of Cs ₂ AgBiBr ₆ double perovskite solar cells via SCAPS-1D modelling,” <i>Physica Scripta</i> , IOP publishing, vol. 101, no. 8, 2026. doi: DOI 10.1088/1402-4896/ae46ef.	
CONFERENCE PAPERS	[1] Dana Jose, Aparna Thankappan, “Designing Cs ₂ AgBiBr ₆ double perovskite solar cells with optimum efficiency using SCAPS 1D,” in <i>International Conference on Frontiers in Physics</i> , International, St. Albert's College, Ernakulam and College Development Council, MG University, Ernakulam, 10-12 February. BEST ORAL PRESENTATION 3RD	

- [2] Dana Jose, Aparna Thankappan, “Perovskite Solar cell Technology for Sustainable development,” in *Advances in Physico-chemical and Biological Sciences for Environmental and Biodiversity Conservation*, International, STRIDE-UGC-MHRD, Newman College Thodupuzha, 21-22 March.
- [3] Dana Jose, Aparna Thankappan, Sabu Thomas, “A review on perovskite solar cell technology,” in *AICERA 2021*, International, Amal Jyothy College of Engineering, School of Energy Materials MG University, Gdansk University of Technology, 14-16 December. **BEST ORAL PRESENTATION**

TRAINING & FDPS

From Fundamentals to Practice: Density Functional Theory within the Pseudopotential and Plane-Wave Framework	13 November 2025, 1 Day
Workshop · Baselius College · Kottayam · Offline	
Molecular modelling using Gaussian/GAMESS: visualisation and spectral studies	27 June 2025–28 June 2025, 2 Days
Workshop · Baselius College · Kottayam · Offline	
Rietveld Refinement of X-Ray Diffraction	25 March 2025–31 March 2025, 1 week
Workshop · Centre for Advanced computational Research · New Delhi · Online	
NEP 2020 Orientation and Sensitization Program	20 September 2025–30 September 2025
Orientation programme · UGC-MMTTC, University of Kerala, Kariavattom, Thiruvananthapuram · Online	
International Conference on Recent Advancements in Science, Social Science and Technology	3 December 2024–04 December 2024, 2 Days
Conference attended · St. George's College · Aruvithura · Offline	
Physics	30 March 2024–12 April 2024, 2 weeks
Refresher course · Ramanujan College, University of Delhi, MMTTP · Online	
Managing Online classes and Co-creating MOOCs	07 October 2023–21 October 2023, 2 weeks
Refresher course · Ramanujan College, University of Delhi and Devamatha College, Kuravilangad, · Online	
ICT and IoT For Creating Smart Learning Environment	06 December 2021–12 December 2021, 1 week
FDP · St. Geprge's College · Aruvithura · Online	
Induction Programme	06 October 2020–05 November 2020, 4 weeks
Induction programme · University of Calicut, UGC- HRDC · Online	
Statistical Mechanics	02 May 2018–16 May 2018, 2 weeks
Refresher course · Bishop Moore College, Mavelikara, Indian National Science Academy, New Delhi, National Academy of sciences Allahabad, Indian Science Academy, Bangalore · Mavelikkara · Offline	

LANGUAGES

Malayalam · English