



Mercy College
 Palakkad, Kerala, India 678006.
 Govt. Aided Arts & Science College
 Affiliated to the University of Calicut
 Accredited by NAAC with A Grade-IV Cycle

RESEARCH & POSTGRADUATE DEPARTMENT OF PHYSICS

INVITED LECTURE on Electron dynamics in Quantum Systems

Objectives of the Programme:

- Fundamentals of quantum systems
- Photon-matter interactions
- Knowing more about quantum confinement, role of excitons etc
- Learn from a leading expert in photonics and quantum physics



Report: The Research and Postgraduate Department of Physics, Mercy College, Palakkad organized an invited lecture by Dr. Saji K J, Associate Professor, International School of Photonics, CUSAT on 16.03.2026. The title of the talk was Electron dynamics of Quantum Systems which focussed on the quantum size effect and how different materials exhibited different colours at nano regime. The basics as well as prominent topics of quantum mechanics were dealt in detail.

Outcome: The lecture deepened students' understanding of the foundational principles of quantum systems, providing a strong conceptual framework for future academic and research pursuits. It sparked curiosity and encouraged the development of a scientific mindset, motivating participants to explore careers in advanced research and innovation. The session played a vital role in nurturing research orientation and inspiring a focused approach toward scientific inquiry.

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