



UNIVERSITY OF CALICUT

**DEPARTMENT OF  
NANOSCIENCE AND TECHNOLOGY**

Online Workshop on

# “Beauty of Quantum Mechanics in Real Life”

21<sup>st</sup> to 25<sup>th</sup> June 2021

Meeting Link

**Morning Sessions** : Using Webex (meeting link will provide later)

**Afternoon Sessions:** <http://meet.google.com/frd-hcom-pkw>



## Organizing Committee

**Patron** : Prof. M. K. Jayaraj  
*Hon'ble Vice Chancellor, University of Calicut*

**Convener** : Dr. Sindhu S.  
*(Head, Dept. Nanoscience & Technology)*

### Members

Dr. Shibu E. S.  
*(Asst. Prof., Dept. Nanoscience & Technology)*

Dr. Vijisha K. Rajan  
*(Asst. Prof., Dept. Nanoscience & Technology)*

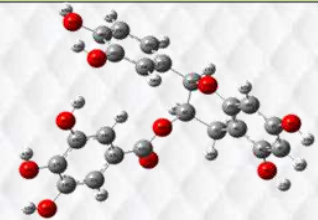
Dr. Kishore Sridharan  
*(Asst. Prof., Dept. Nanoscience & Technology)*

## Free Registration

**Registration Link:** <https://forms.gle/WfzNWm4Xm4kECARs9>

## About the Workshop

This webinar aims to support the Masters/Ph.D. students at the beginner and the professional level to get familiarized with the essence of Quantum Mechanics. Eminent experts in this field will deliver lectures on the introductory level to the advanced applications. Towards the end of this webinar, students will be enriched with the different aspects of Quantum Mechanics and its applications in real life.

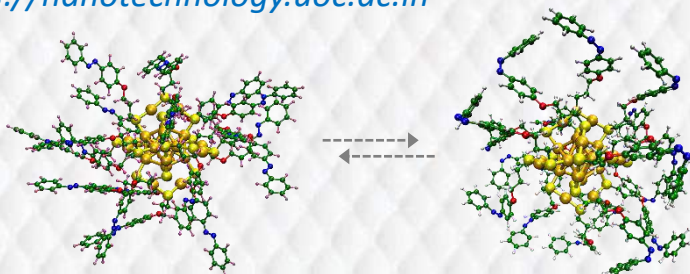


## Department of Nanoscience and Technology

Department of Nanoscience & Technology is one of the relatively new Departments in the University of Calicut. The Department initiated an M. Tech program in Nanoscience & Technology with an intake of 10 students in 2010. The program is designed in the semester pattern with research-oriented elective papers and project work. Nanoscience and Technology is a multidisciplinary area with cutting-edge concepts that enclose new materials and devices with unique properties. Nanotechnology is concerned with refining new materials and devices applicable to medicine, electronics, energy research, etc. The Department offers Ph.D program in thrust areas of nanomaterials, including energy, sensors, photocatalysis, hydrogen production, and bionanomaterials. The Department also focuses on computational nanotechnology for pharmaceutical and industrial applications.

## Ph.D Admission

Department of Nanoscience & Technology is looking for highly motivated candidates for Ph.D admission. Interested candidates may contact the faculty members directly.  
<https://nanotechnology.uoc.ac.in>



## WORKSHOP SCHEDULE

21-06-2021

10.00 am Inaugural Address  
 Prof. M. K. Jayaraj, Hon'ble Vice Chancellor, University of Calicut

10.15 am – 12.45 pm **“Strange and Beautiful World of Quantum Mechanics”**  
 Prof. K. L. Sebastian (Bhatnagar Awardee), IISc Bangalore and IIT Palakkad (Rtd.)  
 Session Chair: Dr. Joby Thomas, Rtd. Vice Principal, St. Thomas' College, Thrissur

22-06-2021 & 23-06-2021

9.30 am - 12.30 pm **“A Wonderful Model to learn 'A to Z' of Quantum Mechanical Concepts”**  
 Prof. M. P. Kannan, Rtd. Prof., Dept. of Chemistry, University of Calicut  
 Session Chair: Dr. C. L. Joshy, Assoc. Prof. & HOD, Dept. of Chemistry, St. Thomas' College, Thrissur

24-06-2021 & 25-06-2021

9.30 am - 12.30 pm **“Quantum Mechanics of 1D Simple Harmonic Oscillator and Rigid Rotor”**  
 Dr. Aneesh M. H., Asst. Prof. & HOD, Dept. of Chemistry, PSMO College, Tirurangadi  
 Session Chair: Dr. Kavitha A. P., Asst. Prof. & HOD, Dept. of Chemistry, Farook College, Kozhikode

25-06-2021

2.00 pm – 4.00 pm **“Pseudo Potential Model for Calculating Optical Properties of Nanostructures”**  
 Dr. R. Prasanth, Asst. Prof., Central University, Pondicherry  
 Session Chair: Dr. Antony Joseph, Professor, Dept. of Physics, University of Calicut

21-06-2021 to 24-06-2021

2.00 pm – 4.00 pm **Interactive Sessions**  
 Dr. Vijisha K. Rajan, Asst. Prof., DNST, University of Calicut

25-06-2021

4 pm – 4.30 pm **Concluding Remarks by Head, DNST University of Calicut**

