



Science Academies' Refresher Course on Elementary Quantum Mechanics and Spectroscopy

at

Sardar Vallabhbhai National Institute of Technology, Surat
14–29 January 2019

Sponsored by

Indian Academy of Sciences, Bengaluru
Indian National Science Academy, New Delhi
The National Academy of Sciences, India, Allahabad

Students even at (high) school level know that the physical world consists of microscopic objects like electrons, protons, neutrons, atoms, molecules, etc. To understand behavior of physical system at macroscopic level, it is essential to understand behavior of the constituent microscopic particles. So a working knowledge of quantum Mechanics (which is really the mechanics to study behaviour of microscopic particles) is essential not only in the study of various branches of physical science but also in the study of technology (solid state devices, quantum electronics and material science, etc.). The proposed course broadly covers important topics of Quantum mechanics and spectroscopy with conceptual advances in this field. It also covers group theory.

Applications are invited from teachers with experience in teaching undergraduate and postgraduate courses in Physics with mathematics background. Maximum 35 applications will be considered and teachers who wish to participate in the Refresher Course may apply through proper channel with the following details: name, date of birth, gender, e-mail, official and residential addresses, telephone numbers, academic qualifications, courses taught, affiliation, positions held and tenure. It is also essential to submit a brief statement (between 250 and 500 words) as to why they think the Course will help to improve their classroom teaching of Quantum Mechanics and Spectroscopy.

Applications should be submitted ONLINE by clicking the following link:

<http://web-japps.ias.ac.in:8080/Refreshcourse/ZQMS.jsp>

A print copy of the application must also be sent by speed post forwarded by the head of the institution. It should reach **The Course Coordinator** before **30 November 2018**. Outstation candidates will be provided local hospitality and round trip bus/train (three-tier AC) fare by the shortest route.

Course Director: Prof. L S Chamyal, M S University, Baroda, Vadodara, Gujarat.

Course Coordinator: Dr Lalit Kumar Saini, Coordinator, Assistant Professor, Department of Applied Physics, S. V. National Institute of Technology, Surat 395 007, Gujarat; e-mail: drlalitsaini75@gmail.com.