



Science Academies' Refresher Course in Quantum Mechanics, 2–14 December 2013

sponsored by

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

in collaboration with

J S S Mahavidyapeetha, Mysore

at

J S S Institutions Campus, Suttur, Mysore District

A Refresher Course in 'Quantum Mechanics' for college/university teachers/research scholars will be held at JSS Institutions Campus, Suttur, Mysore District, Karnataka, during 2–14 December 2013. The Course is primarily aimed at teachers teaching quantum mechanics at the UG/PG level although a few seats will be available for research scholars in physics. The Course will cover the basic and advanced topics of quantum mechanics, through lectures and tutorials. College/university teachers having at least a Master's degree in Physics are particularly encouraged to apply.

Topics: Most of the topics in a standard UG/PG level course syllabus will be covered. There will be four modules:

Module 1: Physical basis of quantum mechanics, Schrödinger equation, hydrogen atom;
Module 2: Basic postulates, linear vector space, angular momentum, atoms and molecules;
Module 3: Perturbation theory (time-independent and time-dependent), scattering theory;
Module 4: Quantum theory of radiation, relativistic quantum mechanics.

Resource persons:

Professors G. Rajasekaran (The Institute of Mathematical Sciences and Chennai Mathematical Institute), K. S. Mallesh (University of Mysore), Govind Krishnaswami (Chennai Mathematical Institute) and H. S. Mani (Chennai Mathematical Institute).

Course Director: Professor G. Rajasekaran

Teachers/research scholars who wish to participate should send their applications online using the following link.

<http://web-japps.ias.ac.in:8080/Refreshcourse/JSSICS2013.jsp>

A copy of the application through the Head of the institution should be sent by speed post to: **Professor G. Rajasekaran**, Chennai Mathematical Institute, H1, SIPCOT IT Park, Siruseri, Kelambakkam 603 103, India. For any further query, please e-mail to: qm.suttur@gmail.com. Please note that participants have to attend the full duration of the Course.

Last date for receipt of applications: **10 October 2013**.