

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

at J S S Institutions Campus, Suttur, Mysore District

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

in collaboration with J S S Mahavidyapeetha, Mysore

A Refresher Course in 'Quantum Mechanics' for College/University teachers/research scholars will be held at JSS Institutions campus, Suttur, Mysore District, Karnataka. 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, Schrodinger 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 Malleth (University of Mysore), Govind Krishnaswami (Chennai Mathematical Institute) and H S Mani (Chennai Mathematical Institute).

Course Director: Professor G. Rajasekaran

Course Coordinator: Professor K. S. Malleth

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: Prof. G. Rajasekaran, Chennai Mathematical Institute, H1, SIPCOT IT Park, Siruseri, Kelambakkam 603 103, India. For any further query, please email 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.**

