



## 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

**Course Coordinator:** Professor K. S. Mallesh

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](mailto: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**.