

Science Academies' Refresher Course in Theoretical Physics

Sponsored by



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

in collaboration with



Department of Physics, University of Mumbai

16–28 July 2012

A Refresher Course in Theoretical Physics for college/university teachers will be held at the Department of Physics, University of Mumbai from 16 to 28 July 2012. The course is aimed at University and college teachers at M.Sc. level. The course will consist of lectures on selected topics in classical mechanics, quantum mechanics, classical electrodynamics and mathematical methods taught at M.Sc. level. The lectures will be supplemented by tutorials and discussions. College/university teachers having at least a master's degree in physics are encouraged to apply.

Topics: Selected topics from standard M.Sc. level course syllabus will be covered. This will include Fourier transform, complex variables, Lagrangian and Hamiltonian formulations of classical mechanics, central force problem, Poisson brackets, wave mechanics, abstract vector space formulation of quantum mechanics, quantum theory of angular momentum, scattering theory, and relativistic formulation of electrodynamics.

Resource persons: Amita Das (IPR, Ahmedabad), Arvind Kumar (UMDAE-CBS, Mumbai), H. S. Mani (CMI, Chennai), S. H. Patil (IIT, Mumbai), A. A. Rangwala (University of Mumbai).

Teachers/research scholars who wish to participate in this Refresher Course should submit their curriculum vitae (including name, date of birth, sex, educational qualification with marks obtained, teaching experience, courses taught, positions held, postal and email addresses, phone numbers, etc.). The applications should be sent preferably by e-mail to refresher.physics@mu.ac.in

or by regular mail to:

Professor Anuradha Misra, Course Coordinator, Department of Physics, University of Mumbai, Santa Cruz (E), Mumbai 400 098.

Selected teachers will be provided local hospitality and round trip shortest train fare (3-tier AC).

Last date for receipt of applications: **30 May 2012**.