



**INDIAN INSTITUTE OF SCIENCE EDUCATION  
AND RESEARCH MOHALI (IISER Mohali)**  
Knowledge City, Sector 81 Mohali, SAS Nagar

**SCIENCE ACADEMIES' 62nd REFRESHER COURSE IN  
EXPERIMENTAL PHYSICS**

A Refresher Course in Experimental Physics will be held at the IISER Mohali from 8 to 23 July 2014 exclusively for faculty teaching undergraduate and postgraduate courses. The course aims to familiarize the participant teachers with a set of new experiments that have been developed as a low cost kit by the Indian Academy of Sciences to cater to the B.Sc. and M.Sc. levels.

The Course aims to familiarize physics teachers with about twenty-five experiments at the B.Sc./M.Sc. level in mechanics, normal modes, Coriolis force, heat, electricity, AC circuits, capacitance and earth, dielectrics, magnetism, relaxation, phase-sensitive detection techniques using lock-in amplifier, nonlinear dynamics and phase transitions. All the experiments verify physical laws and principles and yield reasonably accurate results. The experiments developed at IISER Mohali will also be demonstrated. The Refresher Course is jointly sponsored by the three science academies:

**Indian Academy of  
Sciences, Bangalore**



**Indian National Science  
Academy, New Delhi**



**The National Academy of  
Sciences, Allahabad**



Prof. R. Srinivasan who designed most of these experiments for the benefit of physics teachers and students in Indian universities will be the Course Director. The course comprising of lectures, discussions and laboratory sessions will help the participants hone their skills in experimental physics and enable them to introduce the experiments in their respective curricula. The UGC has also approved of 2-week Refresher Courses of good standing for promotion of teachers, vide notification – F 3-1/2009 dated 30 June 2010.

Applications are invited from teachers with experience in teaching undergraduate and postgraduate courses in Physics. Motivated students of M.Sc. Physics who have a keen interest in Experimental Physics and in teaching physics, may also apply. Preference will be given to applicants from Punjab, Haryana and Himachal. The total number of seats will be limited to about 30. Participants will be provided boarding, lodging and TA as per the academy rules for the duration of the course in addition to the course material. Interested participants must submit a soft copy of filled application available at <http://www.iisermohali.ac.in/outreach/phyrefresh.html> to the Course Coordinator by e-mail to [outreach@iisermohali.ac.in](mailto:outreach@iisermohali.ac.in). Applications from teachers must be signed and stamped by the Head of their institution. The scanned copy of the form should be e-mailed as a pdf attachment.

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**Last date for receipt of applications: 31 May 2014**  
**Selected participants will be informed by e-mail by: 10 June 2014**