



Information and Announcements

Science Academies Refresher Course in Statistical Physics 29 April to 12 May 2012

Sponsored by

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

in collaboration with

Nehru Science and Arts College, Kanhangad, Kerala

A Refresher Course in Statistical Physics for College/University teachers will be held at Nehru Science and Arts College, Kanhangad, Kerala, from April 29 – May 12, 2012. The course is aimed at college teachers of Statistical Mechanics courses at the BSc/MSc level. The course will cover the basic concepts and techniques of Statistical Physics, in a pedagogical manner, through lectures and tutorials. Some advanced topics will also be covered. Discussions will include common difficulties faced by students, problems designed to explain concepts, and techniques to improve the presentation and teaching skills of participants. College/University teachers having at least a master's degree in Physics/Mathematics/Engineering are encouraged to apply.

Topics: Most of the topics in a standard BSc/MSc level course syllabus will be covered. This will include thermodynamics, ensemble theory, noninteracting and interacting systems, quantum statistical mechanics, Bose–Einstein condensation, phase transitions, random walks, fluctuation-dissipation theorem and numerical techniques like exact enumeration, molecular dynamics and Monte Carlo simulations.

Tentative list of lecturers: D Das (IITB), R Rajesh (IMSc), S Sastry (TIFR-H), D Dhar (TIFR), P Shukla (NEHU), K P N Murthy (Univ. of Hyderabad), G I Menon (IMSc), A Sain (IITB).

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 email to refresher@home.theory.tifr.res.in or by regular mail to:

Professor Deepak Dhar, C/o Course Director, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005.

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

Last date for receipt of applications: 29 February, 2012

