



Science Academies' Refresher Course in Statistical Mechanics

at

Homi Bhabha Centre for Science Education,
Tata Institute of Fundamental Research, Mumbai

6–19 November 2013

Sponsored by

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

In Collaboration with

University of Mumbai, Mumbai
Tata Institute of Fundamental Research, Mumbai

The Course is aimed at college teachers of statistical physics at B.Sc./M.Sc. level. It will cover basic principles and techniques, in a pedagogical manner, through lectures and tutorials, with illustrative problems. Some advanced topics and common difficulties faced by students will also be discussed. College/University teachers, with at least a master's degree in Physics/Mathematics/Engineering are encouraged to apply.

Topics: There will be six courses dealing with fundamental concepts of statistical physics, probability theory, back-of-envelope calculations, quantum statistical physics, phase transitions and critical phenomena, and Monte Carlo techniques and stochastic evolution.

Resource Persons: Sharad Patil (IIT, Mumbai), Anuradha Misra (Univ. of Mumbai), Sourendu Gupta (TIFR, Mumbai), Praveen Pathak (HBCSE, TIFR, Mumbai), Deepak Dhar (TIFR, Mumbai), Dibyendu Das (IIT, Mumbai), Kedar Damle (TIFR, Mumbai).

Course Director: Deepak Dhar; **Course Coordinator:** Anuradha Misra

Teachers/research scholars who wish to participate should send a short letter explaining their reasons for wanting to participate, along with a brief curriculum vitae (including name, date of birth, gender, educational qualifications, teaching experience, typical courses taught, positions held, postal and e-mail address, and contact numbers).

Applications should be sent (preferably by e-mail) to RCSP2013@physics.mu.ac.in or by post to: **Professor Anuradha Misra**, Department of Physics, University of Mumbai, Kalina, Mumbai 400 098.

Selected participants will be provided local hospitality. Outstation participants will be reimbursed round trip 3-tier train fare (shortest route) from place of residence.

Last date for receipt of application: **20 August 2013**.