



Science Academies' Refresher Course in Statistical Physics

Sponsored by

**Indian Academy of Sciences, Bengaluru
Indian National Science Academy, New Delhi
The National Academy of Sciences, India, Prayagraj**

Organized by



Sir P. T. Sarvajanic College of Science, Surat

10–22 June 2019

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, basic principles and general results, Probability theory and applications, Quantum statistics: Bose and Fermi distributions, Bose condensation, Markov processes and Computer simulations, Critical phenomena and renormalization group theory, Introduction to non-equilibrium statistical physics.

Resource persons: Rahul Marathe (IIT, Delhi), R. Rajesh (IMSc, Chennai), Kavita Jain (JNCASR, Bengaluru), Sudhir Jain (BARC, Mumbai), Chandan Dasgupta (IISc, Bengaluru), Kabir Ramola (TIFR, Hyderabad).

Course Director: Prof. Deepak Dhar

Course Coordinator: Dr Pruthul Desai

Teachers/research scholars who wish to participate should send a short letter explaining their reasons for wanting to participate, along with 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).

Interested applicants must submit their application ONLINE by clicking on the following link:

<https://web-japps.ias.ac.in:8443/Refreshcourse/RPF.jsp>

Applications should be sent (preferably by e-mail) to pruthulrcsp@gmail.com or by post to: **Dr Pruthul Desai**, Department of Physics, Sir P. T. Sarvajanic College of Science, Athwalines, Surat 395 001.

Selected participants will be provided local hospitality. Outstation participants will be reimbursed round trip 3-tier train fare (shortest route) from the place of residence. Participants are expected to stay for the full duration of the course.

Last date for receipt of application: **31 March 2019**.