



Science Academies' Refresher Course on Statistical Physics and its Application

at

Department of Physics, Tripura University, Agartala, Tripura

2–15 May 2017

Sponsored by

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

Statistical physics explains and predicts properties of matter in terms of its constituent particles and has played a fundamental role in the development of modern science. It describes the emergence of new behaviour from interactions of many degrees of freedom and as such has found applications in diverse fields, e.g. social, biological and engineering, apart from physical sciences. Two-week refresher course introduces the central concepts and tools of statistical physics, which includes Probability Theory, Basic Concepts of Statistical Physics, Basic Principles of Quantum Statistical Physics, Stochastic Processes, Phase Transition and Critical Phenomena, Non-equilibrium Statistical Physics and Numerical Simulations and its Applications.

Applications are invited from teachers/researchers with experience in teaching undergraduate and postgraduate courses in Physics. Maximum 35 applications will be considered and teachers who wish to participate in the Refresher Course may apply through proper channel with the following details: name, date of birth, gender, e-mail, official and residential addresses, telephone numbers, academic qualifications, courses taught, affiliation, positions held and tenure. It is also essential to submit a brief statement (between 250 and 500 words) as to why they think the Course will help to improve their classroom teaching of Statistical Physics. Preference will be given to the participants from the North East Region.

Applications should be submitted ONLINE by clicking the following link:

<http://web-japps.ias.ac.in:8080/Refreshcourse/RCSPSP.jsp>

A printed copy of the application approved by the Head of the institution should be sent by speed post to: **Prof. Sanjay Kumar**, Department of Physics, Banaras Hindu University, Varanasi 221 005. Soft copy of the same may be sent to statphys17@gmail.com.

Last date for receipt of applications: **30 March 2017**.

Outstation candidates will be provided local hospitality and round trip bus/train (three-tier AC) fare by the shortest route. In exceptional case, return airfare from Kolkata to Agartala only may be provided. Please note that participants have to attend the full duration of the Course. The detail of it may be found at www.tripurauniv.in

Course Director: Prof. Sanjay Kumar, Department of Physics, Banaras Hindu University, Varanasi.

Course Coordinator: Dr Ratan Das, Department of Physics, Tripura University Agartala, Tripura.