



Science Academies' Refresher Course in Basic Physics and Topology

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

Organized by
Sikkim University, Gangtok, Sikkim
29 January–9 February 2018

The Course is aimed for college teachers of physics and physical chemistry at B.Sc./M.Sc. level. It will cover formal structure and applications of topology in basic physics and physical chemistry, 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/Chemistry/Mathematics are encouraged to apply. Research Scholars and Post Doctoral Fellows (PDF) who are interested in teaching careers are also eligible to apply.

Topics: Basic concepts of topology; Examples from physics and mathematics; Classical mechanics in topological language; Topological aspects of quantum mechanics; Application of topological ideas in solid state physics/statistical mechanics.

Resource persons: Somendra M. Bhattacharjee (IOP, Bhubaneswar), Siddhartha Sen (Trinity College, Dublin), Somnath Basu (IISER, Kolkata), Avijit Mukherjee (Jadavpur University), Amitabh Virmani (CMI, Chennai) and Subir Mukhopadhyay (Sikkim University).

Teachers/PDFs/research scholars who wish to participate should send a covering letter explaining their reasons 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).

Applications are to be submitted ONLINE by clicking the following link:

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

Course Director: Prof. Somendra M. Bhattacharjee. A printed copy of the application approved by the competent authority to be sent to the **Course Coordinator: Dr Subir Mukhopadhyay** (subirkm@gmail.com), Department of Physics, Sikkim University, 6th Mile, Samdur, Gangtok 737 102. Scanned copy of application through e-mail may be sent in advance.

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

Last date for receipt of application: **20 November 2017.**