



# Information and Announcements

## Science Academies' Refresher Course on Experimental Physics

at  
Birla Institute of Technology  
Mesra, Ranchi 835 215, Jharkhand  
**14 June to 29 June 2018**

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

A Refresher Course in Experimental Physics will be held at Birla Institute of Technology, Mesra, Ranchi Jharkhand from 14 June to 29 June 2018 for the benefit of faculty involved in teaching undergraduate and postgraduate courses. Participants in this course will gain hands-on experience with about twenty five out of forty experiments, with a low-cost kit developed for the Indian Academy of Sciences and manufactured by Ajay Sensors and Instruments in Bangalore. These experiments are in (a) mechanics, (b) heat, (c) electricity both DC and AC, (d) magnetism, (e) relaxation, (f) phase sensitive detection technique, and (g) non-linear dynamics. This course is sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad.

Refresher courses in Experimental Physics held so far have been highly successful and the experiments have been included in about 150 institutions including universities, autonomous colleges, and advanced science institutions involved in education. Over 1800 participants have been trained so far and more than 250 kits have been sold. The course will be directed by Dr. C S Sundar, J C Bose Fellow, Materials Science Group, IGCAR, Kalpakkam. It may be noted that UGC regulations include Refresher Courses in API scores for career advancement.

Applications are invited from teachers with experience in teaching undergraduate and postgraduate courses in Engineering and Physics. Motivated students of BSc, MSc Physics courses and PhD students with keen interest in Experimental Physics may also apply. The number of seats will be about 35. Selected participants will be provided with travel assistance (limited to three-tier A/c train fare), accommodation and local hospitality during the Course in addition to course material.

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

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

A copy of the application form signed by the applicant should also be sent by Post to the Course Coordinator, at the address given below. In case of teachers, the form must also be signed and stamped by the Head of the applicant's Institution stating that leave will be sanctioned if the applicant is selected for the Course. A recommendation letter from a teacher is essential for student applicants. Scanned copies of the duly signed documents sent by e-mail will also be accepted.

Address for communication: Dr. Sanat Kumar Mukherjee, Course Coordinator, Science Academies Refresher Course in Experimental Physics, Department of Physics, Birla Institute of Technology, Mesra, Ranchi 835 215. Email: [sanat.mukherjee@bitmesra.ac.in](mailto:sanat.mukherjee@bitmesra.ac.in), Phone: +91 9431363464.

**Last date for the receipt of applications: 30 April 2018**

**Selected participants will be informed by: 5 May 2018**



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## Science Academies Refresher Course in Topology

at  
Ramanujan Institute for Advanced Study in Mathematics  
University of Madras  
Chennai 600 005  
**02 May to 14 May 2018**

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

A Refresher Course in Topology will be held at Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, during May 02-14, 2018. The program is for the mainly for benefit of faculty in the university/college who teach Topology. However, we encourage Research Scholars and Post-Doctoral Fellows (PDF), who work in topology and related areas also to apply.

The course consists lectures on the following topics: (a) topology of metric spaces, (b) basic properties of topological spaces, (c) separation axioms and metrization theorems, (d) fundamental groups, (e) covering spaces and (f) homology theory. Emphasis will be not only on exposition of various concepts and theorems, but also on problem solving.

This Refresher Course is sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad. This is an all India initiative which aims to help motivated college teachers to improve their background knowledge thereby add value to their teaching.

The course will be directed by Prof. Parameswaran Sankaran, FNASc, FASc. It may be noted that UGC regulations include Refresher Courses in API scores for career advancement.

The number of seats will be about 30 for teachers and 10 for PDF/PhD students. Selected participants will be provided with travel assistance (limited to three-tier A/c train fare), accommodation and local hospitality during the Course in addition to course material.

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

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

A copy of the application form signed by the applicant should also be sent by Post to the Course Coordinator, at the address given below. In case of teachers, the form must also be signed and stamped by the Head of the applicants Institution stating that leave will be sanctioned if the applicant is selected for the Course. A recommendation letter from a teacher is essential for student applicants. Scanned copies of the duly signed documents sent by email will also be accepted.

### Address for communication

Dr R Parthasarathi, Course Coordinator, Refresher Course in Topology, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chepauk, Chennai 600 005.  
Email: [rc2018@gmail.com](mailto:rc2018@gmail.com), Phone: +91 44 2533 3380.

**Last date for the receipt of applications: 05 April 2018.**

**Selected participants will be informed by : 07 April 2018.**

