



Science Academies' Refresher Course in Experimental Physics

at

**Birla Institute of Technology, Mesra, Ranchi 835 215, Jharkhand
14 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 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 25 out of 40 experiments, with a low-cost kit developed for the Indian Academy of Sciences and manufactured by Ajay Sensors and Instruments in Bengaluru. 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 the Indian Academy of Sciences, Bengaluru, the 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 B.Sc., M.Sc. Physics courses and Ph.D. 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 AC 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-ijapps.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, e-mail: sanat.mukherjee@bitmesra.ac.in, Phone: +91-94313 63464.

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

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