

It is a matter of immense pleasure to share that **the Science Academies Refresher Course in Experimental Physics** will be held at the Department of Physics, College of Arts, Science and Humanities, Mody University of Science and Technology, Lakshmangarh, Sikar, Rajasthan for two weeks from December 29, 2016 to January 13, 2017. The Course aims to familiarize participants with a set of experiments developed as a low cost kit by the Indian Academy of Sciences to cater to the needs B.Sc. and M.Sc. level students. All experiments verify physical laws and principles and yield reasonably accurate results. The Course is particularly aimed at teachers (from university and colleges) teaching at UG/PG level. The University/College level faculties, having at least a Master's degree in Physics, are eligible to apply. The UGC has also approved a two week Refresher Course of good standing for promotion of teachers; vide notification – F 3-1/2009 dated 30 June 2010. Motivated students of M.Sc./Ph.D. Physics who have a keen interest in Experimental Physics and in teaching physics, may also apply.

A low cost kit has been developed for physics experiments at the B.Sc, M.Sc and some at the Post-M.Sc level, on the initiative of the three academies of sciences in India. This experimental kit has been designed by Prof. R. Srinivasan and his team for physics teachers and students, with the aim to improve laboratory programmes in universities and colleges and to drive home the importance of experimental skills in physics, which is often, neglected in our physics curricula otherwise. The Course will include simple projects to understand / verify underlying physics laws through experiments. Many of the experiments are not a part of regular undergraduate / postgraduate laboratory programmes in our country. The duration of the Refresher Course will be of fourteen days which will comprise of lectures by Prof. R. Srinivasan and other resource persons to provide the theoretical background of the experiments, followed by extensive laboratory sessions (about 18 sessions of three hours).

#### **About the Academies:**

**The Indian Academy of Sciences, Bangalore**, was founded in 1934 by Sir C.V. Raman. Its objectives include promoting the progress and upholding the cause of science in pure and applied branches. Major activities include publication of scientific journals and special volumes, organizing meetings of the Fellowship and discussions on important topics, recognizing scientific talent, improvement of science education and taking up other issues of concern to the scientific

community. Summer Research Fellowships for students and teachers, Refreshers Courses for teachers, Lecture Workshops for students and teachers etc. are part of the programmes under Science Education.

**Indian National Science Academy, New Delhi**, founded in 1935, a premier science Academy in the country, plays crucial role in promoting, recognizing and rewarding excellence in the area. Another important task is to publish journals, organize scientific discussions and bring out proceedings and monographs.

**The National Academy of Sciences, Allahabad**, was founded in 1930 by Dr. Meghnad Saha. The main objective of the Academy is to provide a national forum for the publication of research work carried out by Indian scientists and to provide opportunities for exchange of critical views among them.

#### **About Mody University of Science and Technology**

Mody University of Science and Technology (MUST), spread over 265 acres of lush greenery, is situated at Lakshmangarh (Sikar ) on the Jaipur–Bikaner highway (NH 11) and is ranked among top 45 universities in India and one of the four leading women universities(India Today, July 14). The university is covered under section 2(f) of the UGC Act, 1956 and is empowered to award degrees specified by UGC under section 22 of UGC act, 1956. Apart from this, Mody University is ISO 14001:2004 certified.

This University offers wide range of courses in broad areas of Arts, Sciences, Humanities, Architecture, Engineering Fashion Designing, Management and Law. To enhance global exposure of the students, more than 20 collaborations and MOUs have been signed with many international universities.

#### **About College of Arts, Science and Humanities**

The College of Arts, Science and Humanities offer a right platform for pursuing higher education for undergraduate and postgraduate programs in *Physics, Chemistry, Maths, Biotechnology, Food and Nutrition, Forensic Science, Microbiology, Psychology, and English Literature along with various specific Honors programs at UG level*. The College also offers doctoral research programs in the field of Arts, Sciences and Humanities. The students have easy access to the state-of-the-art- laboratories equipped with the latest instruments enabling them getting involved in most up-to-date experiments and research activities. A full-fledged Foreign Language Department offers an array of options which adds extra dimension to the learning.

### How to Apply

Teachers/Students who wish to participate in this Refresher Course should submit their complete filled-in application form online (in the prescribed format) available at [www.modyuniversity.ac.in](http://www.modyuniversity.ac.in) or at [www.ias.ac.in](http://www.ias.ac.in). → Events → Refresher Courses → Forthcoming courses → Experimental Physics - 83 → Apply here. Application form can also be obtained by copying the following link in the web browser:

[http://web-japps.ias.ac.in:8080/Refreshcourse/applicationform.jsp?Meet\\_=fSha358C7X0=](http://web-japps.ias.ac.in:8080/Refreshcourse/applicationform.jsp?Meet_=fSha358C7X0=)

In the case of faculty members in service, a hard copy of the application should be forwarded to the Course Coordinator (at the postal address stated below) by the Head of the Institution stating that leave will be sanctioned if the applicant is selected for the Course. Recommendation letter from a teacher is essential for student applicants. For any other query, applicants can send an e-mail to the Course Coordinator.

### Important Dates

Last date for the receipt of applications: 31st October 2016

Selected participants will be informed by: 15th November 2016

### Course Director

Prof. R. Srinivasan

Former Professor of Physics at IIT Madras

Former Director of UGCDAE-CSR, Indore.

### Address for Correspondence

Dr. Brajraj Singh

Refresher Course Coordinator

Department of Physics

College of Arts, Science and Humanities (CASH)

Mody University of Science and Technology

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# Science Academies' Refresher Course in

## “Experimental Physics”

(December 29, 2016 to January 13, 2017)

Sponsored by



Indian Academy of Sciences  
Bangalore



Indian National Science Academy  
New Delhi



The National Academy of Sciences  
Allahabad

Jointly Organised

by

Department of Physics

College of Arts, Science and Humanities (CASH)



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