

SCIENCE ACADEMIES' 97th REFRESHER COURSE IN EXPERIMENTAL PHYSICS

Department of Physics

Rajiv Gandhi University,

Doimukh Itanagar, Arunachal Pradesh

Report

A Refresher Course in Experimental Physics was held at the Department of Physics, Rajiv Gandhi University, Doimukh, Arunachal Pradesh from 26 March 2018 to 10 April 2018. The course was sponsored by the three academies' of sciences in India and was exclusively for the faculty members of the Colleges and Universities and also to young researchers. Thirty faculty members and research scholars from UP, Assam and Arunachal Pradesh participated in the course.

Prof. C S Sunder was the Course Director and Prof Sanjeev Kumar, Department of Physics, Rajiv Gandhi University was the course coordinator. Special lectures were delivered by Prof Ashok Kumar (Tezpur University), Prof. Anurup Gohain Barua (Gauhati University). Prof C S Sunder (Igkar Kalpakkam), Dr A Bharathi (UGC DAE CSR Kalpakkam) Dr Manish Dev. Sharma (Panjab University Chandigarh), and Dr. Manohar Nyayate (DAE CBS Mumbai) worked as Resource Persons. This happened for the first time in such courses that few participants gave power point presentations about one of the experiments performed by them; some participants also discussed their ideas about physics experiments. The course aimed to familiarize the participant teachers with a set of new experiments that have been developed as a low cost kit by the Indian Academy of Sciences to cater to the B.Sc. and M.Sc. Levels. About seventeen experiments at the BSc./M.Sc. level in heat, electricity, AC circuits, capacitance, dielectrics, magnetism, relaxation, phase-sensitive detection techniques using lock-in amplifier, nonlinear dynamics and phase transitions were carried out by participants during the course. All the experiments were aimed at verification of physical laws and principles and yielded reasonably accurate results. An excursion to Ziro (a beautiful place) for the participants with all faculty member of Physics Department was also sponsored by the three Science Academies'. Prof A Mitra, Finance Officer and VC Incharge of RGU was the Chief Guest in inauguration function while Prof Tomo Riba, Registrar of RGU was Chief Guest of Valedictory Function.

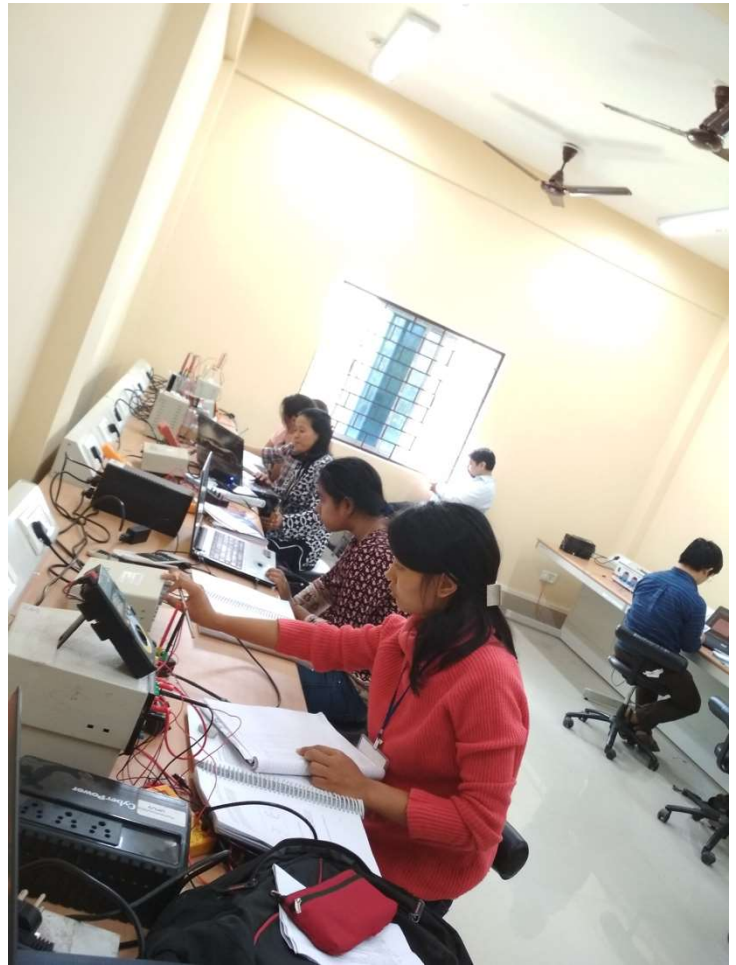
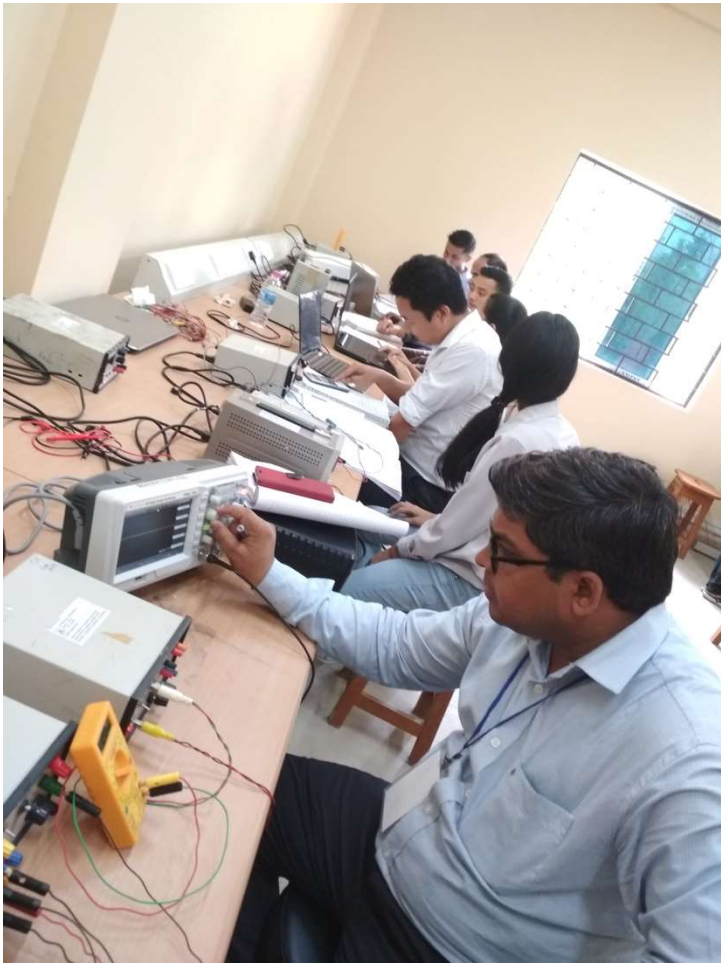
Details of the program and list of participants along with few photographs are attached.



Group Photograph



Inauguration of Course



Participants doing experiments