

Report on Experiential Learning of students of the Department of Physics, Asutosh College to Indian Institute of Engineering Science & Technology

(IEST Shibpur) on 30/11/2023

§. The Department of Physics, Asutosh College have arranged a visit for Semester I, III and V Physics (Hon's) students to the IEST, Shibpur in West Bengal, India on 30/11/2023. Dr. Amit Kumar Bhattacharjee and Dr. Aditi Das have accompanied **10** selected participants out of **25** applicants from Asutosh College, main building (92, S.P. Mukherjee Road, Kolkata-26) to the VECC campus using Asutosh College Bus. The list of participants is attached herewith. The security have verified identity of all the participants at entrance of VECC and assigned us Dr. Sourav Pramanick (Assistant Professor, Dept. Of Physics, IEST Shibpur) as contact person. Fortunately on that very day IEST was organizing a small outreach activity for its internal students as well as nearby colleges to celebrate **165th Birthday of Sir Jagadish Chandra Bose**. To this end, they had invited an eminent academic personality – Prof. Partha Roy Chowdhury from the Department of Physics, IIT Kharagpur to deliver a lucid presentation on Fiber Optics and Applications. The day followed by demonstration at the IEST and Indian Association of Physics Teachers (IAPT)'s newly formed “Innovation Hub”, where students learned to design innovative scientific experiments with cheap and real-life commodities, in-par with the ideas of Sir J.C.Bose (explained later). A brief presentation regarding the basics of Image and Audio Processing, and their applications in Physics were seperately demonstrated by the research scholars and Masters students of IEST. They have also discussed on the career opportunities to join IEST as Msc or PhD candidate and the day ended with fruitful scientific interaction with the students.



With the Bus in fron of College



En-route IEST



A beautiful scientific day in IEST



In front of the venue (AJC Bose Bhawan,
IEST)

The event initiated with garlanding the statue of Sir J.C.Bose in the AJC Bose Bhawan and by recapitulating the vision of Sir on the importance of experimental science in India with the most basic components available around in the society, that have the potential to create wonders. During the presentation, students learned about Fiber Optics and its vary many industrial applications. After the presentation and discussions, all the participants were subdivided into three small groups for visiting their in-house laboratories. A few memories are attached.



Demonstration by Prof. P.R.Chaudhuri, IIT Kharagpur & engaged students.



Image Processing Unit and Demonstration in Innovation Hub to Dr. Aditi Das.



