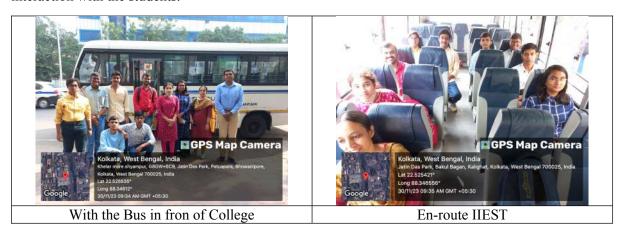
Report on Experencial Learning of students of the Department of Physics, Asutosh College to Indian Institute of Engineering Science & Technology

(IIEST 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 IIEST, 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, IIEST Shibpur) as contact person. Fortunately on that very day IIEST 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 IIEST and Indian Association of Physics Teachers (IAPT)'s newly formed "Innovation Hub", where students learned to design innovative scientific experiements 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 IIEST. They have also discussed on the career opportunities to join IIEST as Msc or PhD candidate and the day ended with fruitful scientific interaction with the students.





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 inductrial 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.



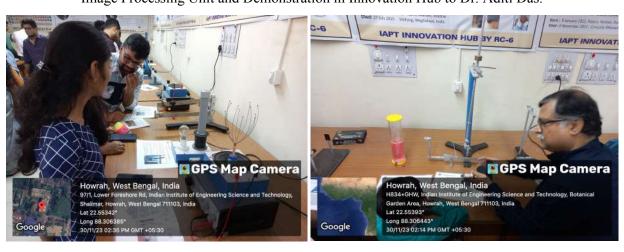


Demonstration by Prof. P.R.Chaudhuri, IIT Kharagpur & engaged students.





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



Demonstration of very many nonlinear oscillators using basic day-to-day materials to IAPT Delegates & College Professors by Dr. Syed Minhaz Hossain, HoD of Physics, IIEST.



Demonstration of magnetic dipolar interaction leading to square lattice using ping-pong balls connected with magnets suspended in square water chamber.

§. List of Selected Candidates from our Department

- 1. Nayan Garai (Sem-V).
- 2. Utsav Sarkhel (Sem-V).
- 3. Pramith Mukherjee (Sem-V).
 - 4. Diptak Ghosh (Sem-III).
 - 5. Disha Pathak (Sem-III).
 - 6. Ranit Banerjee (Sem-III).
 - 7. Adreet Sarkar (Sem-III).
- 8. Debendra Kar Majumder (Sem-III).
 - 9. Ankan Paul (Sem-I).
 - 10. Sangita Halder (Sem-I).

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