

EDUCATIONAL VISIT

Name of the Institute/Organization visited : National Institute of Technology, Meghalaya, Shillong

1. Duration and date of visit : 1 day, 26th, Oct, 2022
2. Any specific event : Interactive Session for Development of Scientific Research culture
3. Name(s) of coordinator : Dr. M. Lyndem
2. Number of students participated : 5
3. Outcome of the visit:

The Department of Physics had organized a visit of five students of 5th semester (Physics Honors) to attend an Interactive session at the National Institute of Technology, Meghalaya. The main objectives of the program were to inculcate scientific temper amongst the students, to encourage research in the field of Basic and Applied Physics and Interaction with faculty to develop a scientific culture.

The students were welcome by the staff representative at the CTEL-lab. An introductory talk was presented followed by words of inspiration by the Dean. There was an interactive session with the research scholars at CTEL-lab in which they briefed the visiting students about their different research fields namely: (i) Material Synthetics (ii) Production of nano-particles (iii) Liquid Crystals (iv) Dark matter and Dark energy (v) Solar energy.

Post lunchtime, the students were taken to different laboratories equipped with top edge equipment. The research scholars demonstrated their ongoing research experiments and explained the different equipments and their functions. The different labs visited were Material synthesis lab, Liquid crystal lab, Laser Ablation Lab, Material characterization lab. From the visit to these labs, a lot of the knowledge was gained about material synthesis, the different types of liquid crystals a phase transition of liquid crystal material with change in temperature and

were observed in real-time. The process of formation of Nano particles with the help of laser and how different semiconductor materials are made also were explained, etc. Thus the visit was very helpful in understanding the nature and working environment in the research labs of higher institutes.

