

NARULA INSTITUTE OF TECHNOLOGY

Physics Laboratory





Objectives:

The Physics Laboratory is situated at the top floor of the main building of Narula Institute of Technology. The laboratory course is offered as PH191 and PH291 at odd and even semester to the 1st year B. Tech students. PH391 and PH491 are offered to the second year students at odd and even semesters. Contact hours for the laboratory course are 3 hours/stream/week/group. In the even semester, 1st and 2nd year students of Electrical Engineering (EE), Electronics and Instrumentation Engineering (EIE) and Electronics and Communication Engineering take PH291 and PH491 laboratory courses. In the odd semester, students of Computer Science Engineering (CSE), Information Technology (IT) and Civil Engineering (CE) take PH191 and PH391 laboratory courses for 1st and 2nd year respectively.

Diploma in CE and EE courses have Basic Physics Lab in 1st year 1st semester and Applied Physics Lab in 1st year 2nd semester.

The major experiments that are performed by the students in the 1st year BTech and Diploma laboratories are mainly focused on the basic experiments on the general properties of matter, heat, sound, light and electricity.

2nd year B. Tech lab performs experiments on measurement of Planck's constant, Stefan's constant, specific charge of electron, Lande g factor, measurement of dielectric constant of a material, laser diffraction study to measure the wavelength of light, Frank Hertz experiment to find out Rydberg constant, to study symmetry in crystal structures .

Continuous evaluation of the performance of the students is done. Detailed records of student performance in examinations are maintained in the laboratory