

Physics Laboratory in Center for Basic Sciences (CBS) involves students in hands-on, minds-on learning for laboratory courses in Physics (PL) and Electronics and Instrumentation (GL). At present the laboratory course structure has significant similarity with the UM-DAE Centre for Excellence in Basic Sciences, Mumbai, where attempts have been made to have the experiments of PL course as non routine, innovative and of relevance to a research environment.

It is expected that under the guidance of laboratory instructor student should be able to perform laboratory exercises, document and analyze the observations, understand sources of error, and ultimately should be able to design an experiment in domain of physics. Student should be well versed with basic programming techniques, numerical methods and statistical techniques to have competence to independently undertake small research projects after completing the laboratory course in PL and GL.

The facilities available to the physics students includes state of the art modern computer-controlled data acquisition instruments as well as many of the classical experiment's equipment similar to those used in most of physics laboratories across the country. These experimental set-ups are aimed at understanding the equipment better rather than it being a black box. PL and GL courses include a wide variety of experiments in mechanics, optics, acoustics, electricity, magnetism, heat, spectroscopy, nuclear physics, solid state physics, quantum mechanics. The physics laboratory is still under the development stage and looking forward to acquire more equipment.

The students of CBS have advantage to access the laboratory facilities of School of Studies in Physics and Astrophysics of university for performing the experiments if and when required.

