

Engineering Physics Laboratory 18 PHYL 17/27

This laboratory is catered to I year B.E. students of all the branches. The laboratory has very good facilities to provide good hands on experience to students in basic experiments of physics including Electrical, Mechanical, Optics and Electronics. The department has very good infrastructure with a carpet area of 175 sq.m consisting of spacious laboratory. The laboratory is newly renovated with modern amenities and are well established with latest & modern equipment.

Facilities available:

Optics/Thermal:

- ❖ Newton's Ring Experimental setup
- ❖ Air wedge Experimental setup
- ❖ Laser Diffraction Experimental setup
- ❖ Mercury Light Diffraction (with Spectrometer) Experimental setup
- ❖ Planck's constant experimental setup
- ❖ Stefan's law Experimental setup
- ❖ Optical Fiber Experimental setup

Elasticity/Acoustics/Magnetic:

- ❖ Uniform bending Experimental setup
- ❖ Single cantilever Experimental setup
- ❖ Torsional pendulum Experimental setup
- ❖ Sonometer Experimental setup
- ❖ Magnetic Hysteresis Experimental setup
- ❖ Magnetic Coil Experimental setup
- ❖ Spring Constant Experimental setup

Electrical:

- ❖ Black box Experimental setup
- ❖ LCR Experimental setup
- ❖ Kirchhoff's law Verification setup
- ❖ Fermi Energy Experimental setup
- ❖ Dielectric constant Experimental setup

Electronics:

- ❖ Transistor Experimental setup
- ❖ Zener Diode Experimental setup
- ❖ Energy Gap Experimental
- ❖ Photodiode Characteristics setup