AP Lab - List of Experiments

(For All Branches)

1. Newton's rings – Determination of radius of curvature of plano convex lens
2. Diffraction grating – Determination of wavelength of a monochromatic source
3. Single slit diffraction using Lasers – Determination of wavelength of laser light.
4. Dispersive power of the material of a prism by minimum deviation method.
5. Determination of work function and Planck's constant using photo electric effect.

(a) V-I characteristics of light emitting diode (LED)

(b) V-I characteristics of LASER diode

6. V-I characteristics of a p-n junction diode and Zenar diode
7. V-I Characteristics of solar cell
8. Input and output characteristics of BJT (CE, CB &CC configurations)
9. Determination of energy gap of a semiconductor
10. Determination of acceptance angle and numerical aperture of an optical fiber.
11. Binding losses of optical fiber
12. Understanding the method of least squares–torsional pendulum as an example.

Note: Any 8 experiments has to be performed.