

## List of Experiments:

1. Determination of work function and Planck's constant using the photoelectric effect.
2. Determination of the energy gap of a semiconductor.
3. Determination of the radius of curvature of a Plano-convex lens by forming Newton's rings.
4. Determination of the wavelength of a given monochromatic light source using a plane diffraction grating.
5. Determination of the dispersive power of a given prism.
6. Determination of the operating point for maximum efficiency of a given LED.
7. Determination of the operating point of a photodiode under varying illumination levels
8. Determination of the optimum load for maximum power output of a given solar cell.
9. (a) Determination of the wavelength of a laser using a single slit.  
(b) Determination of the wavelength of a laser using a diffraction grating (N-slits).
10. (a) Determination of the numerical aperture of a given optical fiber.  
(b) Determination of the bending losses in a given optical fiber.