

APPLIED PHYSICS LABORATORY

LIST OF EXPERIMENTS

1. Determination of work function and Planck's constant using Photo electric effect.
2. Determination of Hall co-efficient and carrier concentration of a given semiconductor.
3. Characteristics of series and parallel LCR circuits.
4. V-I characteristics of a p-n junction diode and Zener diode.
5. Input and output characteristics of BJT (CE, CB & CC configurations).
6. V-I and L-I characteristics of light emitting diode (LED).
7. V-I characteristics of solar cell.
8. Determination of Energy gap of a semiconductor.
9. Study B-H curve of a magnetic material.
10. Determination of the beam divergence of the given LASER beam.
11. Determination of Acceptance Angle and Numerical Aperture of an optical fiber.
12. Understanding the method of least squares - torsional pendulum as an example.