**CE/Che/CS/IT-151(First Semester)**

**EC/EE/ME -161 (Second Semester)**

**Physics Lab**

Practicals : **3 Periods/Week** Internal Assessment : **40Marks**

Semester Exam: **3hrs** Semester End Examination : **60Marks**

Credits : **2**

**(Any 10 out of the following experiments )**

* 1. Interference fringes – measurement of thickness of a foil using wedge method.
  2. Newton’s rings - measurement of radius of curvature of Plano- convex lens.
  3. Lissajous’ figures – calibration of an audio oscillator.
  4. Photo cell – characteristic curves and determination of stopping potential.
  5. Diffraction grating - measurement of wavelengths.
  6. Torsional pendulum – determination of Rigidity modulus of a wire.
  7. Photo-Voltaic cell – determination of fill factor.
  8. Series LCR resonance circuit –determination of Q factor.
  9. Sonometer – determination of A.C. frequency.
  10. Laser- determination of wave length using diffraction grating.
  11. Variation of magnetic field along the axis of a circular current carrying coil.
  12. Optical Fiber – Determination of Numerical Aperture and Acceptance Angle

Reference Book : Lab Manual