

## PH-15002 – OPTICS AND MODERN PHYSICS LABORATORY

### Teaching Scheme

Practical: 2-hrs/week  
Sem : Autumn

### Examination Scheme

Term work: 50 Marks  
Oral+ Experiment: 50 Marks

### List of Experiments:

1. To verify of Law of Malus for plane polarized light
  2. Determination of Brewster's angle for a glass surface and Refractive index of a glass
  3. To determine the specific rotation of the given sample with the help of Polarimeter
  4. To determine the wavelength of sodium light by Newton's ring apparatus
  5. To determine the wavelengths of light of a given source using diffraction grating
  6. To measure the thickness of fine wire and grating element of the given grating with help of Laser source
  7. Frank-Hertz Experiment
  8. Linear absorption coefficient using G.M.Counter
  9. Planck's Constant
  10. To measure the divergence of the laser beam
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