

BACHELOR OF SCIENCE in PHYSICS (HONS)
SEMESTER – IV

ATOMIC AND NUCLEAR PHYSICS PRACTICAL

Paper Code: PHY-404P

PHY – 404P: ATOMIC AND NUCLEAR PHYSICS PRACTICAL

25 MARKS

Laboratory:

1. To draw the (i-D) curve for a prism using a spectrometer and to find the minimum deviation using sodium light.
2. To draw (i-D) curve for a prism using a spectrometer and to find the refractive index of the prism using sodium light (angle of the given prism).
3. Determination of radius of curvature of a convex lens using by Newton's ring method.
4. Determination of dispersive power of a prism for sodium light using a spectrometer.
5. Determination of width of a single slit of from a diffraction pattern and verification of the value by means of a travelling microscope.
6. Determination of wavelength of sodium light using a plane transmission grating.
7. Determination of internal resistance of a cell using a potentiometer.
8. To measure current in an external circuit with the help of a potentiometer.
9. Calibration of an ammeter with the help of a potentiometer.
