General Physics Laboratory

Programme: M. Sc. (Physics)	Year: 1st	Semester: 2nd
Course: Program Core	Credits: 4	Hours: 9 hrs. per week

List of experiments:

1. Basics of data analysis
2. Measurement of Planck's Constant by Photo-Electric Effect.
3. Determination of bandgap of a semiconductor by four probe method
4. Study of Hall Effect with variation of temperature
5. Performance evaluation of a GM Counter
6. Measurement of Electrochemical equivalent of Copper and Hydrogen.
7. To determine the mode numbers, electronic tuning range and electronic tuning sensitivity of microwave modes using microwave test bench
8. To study the splitting of spectral lines in the presence of a static magnetic field (Zeeman Effect)
9. Measurement of parameters of Optical Fibre
10. Frank Hertz experiment to verify the discrete nature of electronic state in the atom
11. To study the rotation of the polarization vector of plane polarized light in a magnetic field and measure the Verdet constant (Faraday Effect)