Physics - 2
Code: PH391
Contacts: 3P
Credits: 2

Group - 1: Experiments on Electricity and Magnetism

1. Determination of dielectric constant of a given dielectric material.
3. Determination of resistance of ballistic galnavometer by half deflection method and study of variation of logarithmic decrement with series resistance.
4. Determination of the thermo-electric power at a certain temperature of the given thermocouple.
5. Determination of specific charge (e/m) of electron by J.J. thomson's method.

Group - 2: Quantum Physics

6. Determination of Planck's constant using photocell.
7. Determination of Lande' g factor using Electron spin resonance spectrometer.
8. Determination of Stefan's radiation constant.
9. Verification of Bohr's atomic orbital theory through Frank-Hertz experiment.
10. Determination of Rydberg constant by studying Hydrogen/ Helium spectrum.

Group - 3: Modern Physics

11. Determination of Hall co-efficient of semiconductors.
12. Detremination of band gap of semiconductors.
13. To study current-voltage characteristics, load response, areal characteristics and spectral response of photo voltaic solar-cells.