Advertisement Number E 005/LAB/PHYSICS/14/2/19

1. To determine gamma-ray absorption coefficient for Pb, Sn and Fe elements and Pb-Sn alloy.
2. To calibrate the given gamma-ray spectrometer and determine its energy resolution.
3. To calibrate the given gamma –ray spectrometer and determine its energy resolution using multi cannel analyzer to determine strength of a 60co source by sum-peak method.
4. To study termoluminescence of trapping centers produced by UV in doped Cus.
5. Experiment with microwave (Gunn diode); Young's double slit experiment, Michelson interferometer, Febry-Perot interferometer, Brewester angle, Bragg's law, refractive index of a prism,
6. Frequency modulation using Varactor/ reactance modulator and frequency demodulation using Quadrature detector/Phases locked loop detector.
7. To study FET/ MOSFET characteristic biasing and its application as an amplifier.
8. Function Generator.
9. DSO (50MHz)
10. To determine the velocity of ultrasonic waves in given liquid using interferometer.
11. IC555 Timer lit in astable and monostable modes and applications.
12. To measure heat capacity of solid at high and low temperatures.
13. To study the Michelson interferometer and its application (using He-Ne laser).

Note: Kindly attach brochure along with the quotations. Those who will not attach brochure will not be considered for the bidding process.