

PHYSICS SESSIONAL

Course No.: Phy 102

Department of ME, NAME & IPE (LEVEL-1, TERM-2)

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| 1-W₁ | Determination of line frequency by Lissajous figures using an oscilloscope and a function generator and verification of the calibration of time/div knob at a particular position for different frequencies |
| 2-W₃ | Determination of the spring constant and the effective mass of a loaded spring |
| 3-E₃ | Verification of Biot-Savart law and Tangent law |
| 4-E₅ | Determination of the temperature coefficient of the resistance of the material of a wire |
| 5-O₃ | Determination of the refractive index of the material of a prism with the help of a spectrometer |
| 6-O₄ | Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method |
| 7-M₁ | Determination of the threshold frequency for the material of a photo-cathode and hence find the value of the Planck's constant |
| 8-M₂ | Determination of the linear absorption coefficient and mass absorption coefficient of Aluminum using a ¹³⁷ Cs radioactive source |
| 9-G₂ | Determination of the moment of inertia of a fly-wheel about its axis of rotation |
| 10-G₃ | Determination of the rigidity modulus of the material of a wire by the static method |
| 11-E₆ | Determination of dielectric constant of materials using a parallel plate capacitor |
| 12-O₅ | Determination of the specific rotation of sugar solution by a polarimeter |
| 13-VL-M₃ | Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator |
| 14-H₅ | Calibration of a given thermocouple |
| 15-H₆ | Determination of the melting point of a solid using the calibration curve obtained in experiment H ₅ |
| 16- W₂ | Determination of the frequency of a tuning fork by Melde's apparatus |