|  |  |  |  |
| --- | --- | --- | --- |
| **B. TECH 1st SEMESTER** | **T** | **P** | **C** |
| **-** | **3** | **2** |
| **ENGINEERING PHYSICS LAB** | | | |

**List of Experiments**

**Student has to do Any Ten Experiments of the Following**

1. Determination of the Rigidity Modulus of given material wire using Torsional Pendulum.
2. Determination of the Acceleration due to Gravity and Radius of Gyration using Compound Pendulum.
3. Determination the Frequency of vibration in Transverse and Longitudinal Modes using Melde’s Apparatus.
4. Determination Frequency of A.C supply by using Sonometer
5. Determination of wavelength using Laser.
6. Determination of Numerical Aperture of an Optical Fiber.
7. Determination of the Planck's constant using Photo-Cell.
8. Study the variation of Magnetic Field along the axis of a solenoid coil using Stewart - Gee's Apparatus.
9. Determination of the Time Constant for a C-R Circuit.
10. Determination of the Band Gap of a Semiconductor using a p-n junction diode.
11. Study of Characteristic curves (l/V) of a Zener diode to determine its Breakdown voltage.
12. Determination of Thermoelectric coefficient of a Thermistor by using its Characteristic curve.

**MANUAL:**

1. Engineering Physics Lab Manual Prepared by Physics Faculty.