












List of Experiments

1. Determination of rigidity modulus of a given material wire using **Torsional pendulum**.
2. Determination of acceleration due to gravity and Radius of gyration using **Compound pendulum**.
3. Verification of vibrations of a stretched string by using **Sonometer**.
4. Determination of frequency of an electrically vibrating tuning fork by using the **Melde's experiment**.
5. Calculation of **Dispersive power** of a given material prism by using Spectrometer in minimum deviation method.
6. Determination of wavelength of a monochromatic light source by using **Newton's rings experiment**.
7. Determination of wavelength of a given laser source of light by using **Diffraction grating** in normal incidence method.
8. Study of series and parallel resonance of **LCR circuit**.
9. Determination of a time constant of **RC-circuit**.
10. Determination of magnetic induction flux density along the axis of a current carrying circular coil using **Stewart and Gee's experiment**.
11. Study the characteristics of a **Geiger-Muller counter** and verification of the inverse square law.
12. Study of characteristics and calculating the forward resistance of **Light Emitting Diode**.

NOTE: Any **TEN** of the above experiments are to be conducted.



S.No	Name of the Experiment	Quantity	Image
1	Torsional pendulum	04	
2	Compound pendulum	04	
3	Sonometer- Verification of Laws	04	
4	Melde's experiment	04	
5	Dispersive power of a given Prism	04	
6	Newton's rings experiment	04	
7	Diffraction grating – using Laser	04	

8	LCR-circuit	04	
9	RC-circuit	04	
10	Stewart and Gee's experiment	04	
11	Geiger-Muller counter	03	
12	Light Emitting Diode	04	