

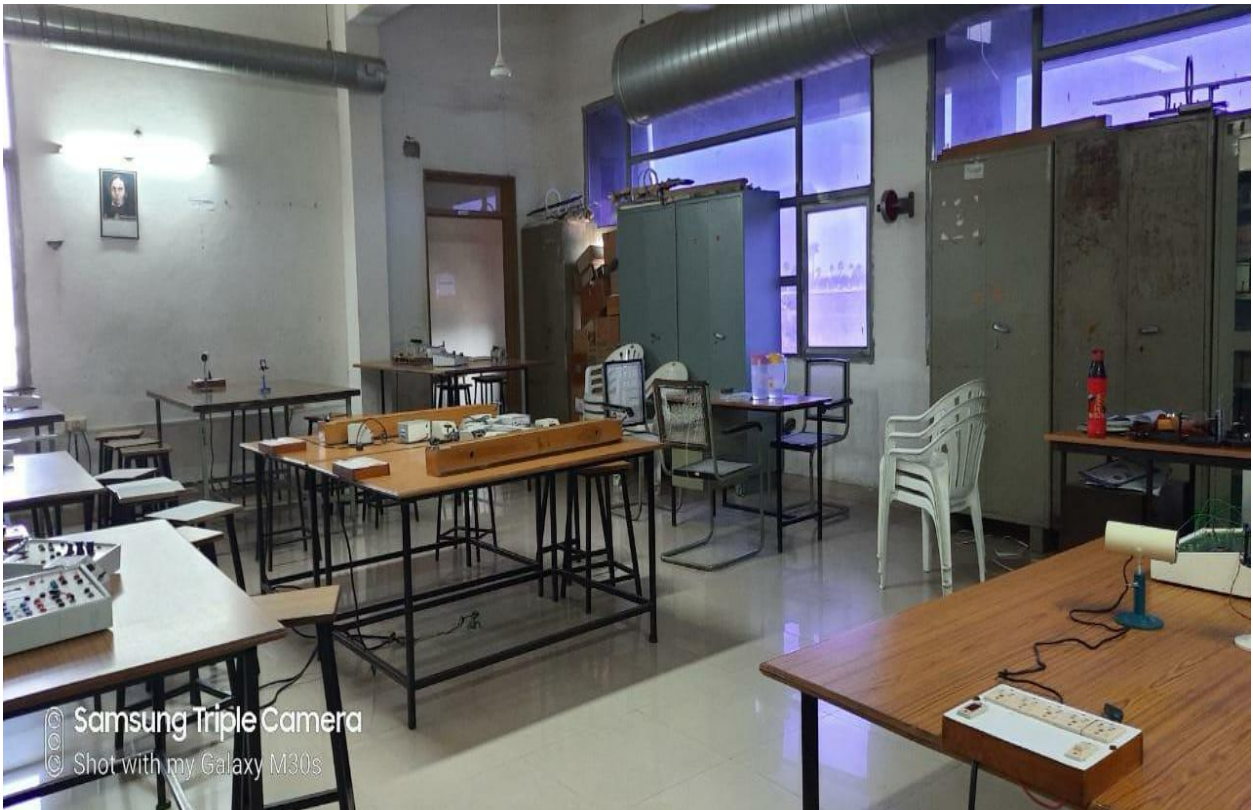
## List of Experiments

1. Determination of the **Planck's constant** by using photo voltaic cell.
2. Determination of the **Energy gap ( $E_g$ )** of a given semiconductor.
3. Study the characteristics and calculation of forward resistance of a **Light Emitting Diode**.
4. Study of series and parallel resonance of **LCR circuit**.
5. Determination of a time constant of **RC-circuit**.
6. Determination of a **Numerical Aperture (NA)** of an optical fiber.
7. Determination of magnetic induction flux density along the axis of a current carrying circular coil using **Stewart and Gee's experiment**.
8. Calculation of frequency of AC supply by using the **Sonometer**.
9. Determination of wavelength of a given laser source of light by using **Diffraction grating** in normal incidence method.
10. Calculation of **Dispersive power** of a given material of prism by using spectrometer in minimum deviation method.
11. Determination of Rigidity modulus of a given material wire using **Torsional pendulum**.
12. Study the characteristics of a **Geiger-Muller counter** and verification of inverse square law.

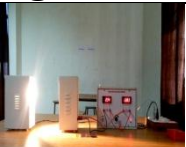










**NOTE:** Any **TEN** of the above experiments are to be conducted.



Samsung Triple Camera  
Shot with my Galaxy M30s



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Shot with my Galaxy M30s

S.No	Name of the Experiment	Quantity	Image
1	Planck's constant	04	
2	Energy gap of a Semiconductor Diode	04	
3	Light Emitting Diode	04	
4	LCR-circuit	04	
5	RC-circuit	04	
6	Numerical Aperture of a given Fiber	04	
7	Stewart-Gee's Experiment	04	
8	Sonometer-AC Supply	04	
9	Diffraction Grating- Using Laser	04	
10	Dispersive power of a given Prism	04	
11	Torsional Pendulum	04	
12	Geiger-Muller Counter	03	