#### J. H. Govt. P.G. College Betul (M.P.)

#### **Department of Physics**

#### List of Experiments

#### Session: 2023-24

#### Class B.Sc.-II (Major)

S. No.	Name of Experiments
1	To determine the resolving power of Telescope.
2	To verify the Brewster's law with the help of spectrometer.
3	To determine the wavelength of D1 and D2 lines of sodium with the help of
	plane transmission grating.
4	To determine the refractive index of the material of prism with the help of
	spectrometer.
5	To determine the Dispersive power of the material of prism with the help of
	Spectrometer.
6	To determine Cauchy constant of the material of prism with the help of
	Spectrometer.
7	To determine the dispersive power of plane difraction grating.
8	To draw the B-H curve of ferro- magnetic material with the help of
	CRO.
9	To determine the voltage and frequency with the help of CRO.
10	To determine the self-inductance of a given coil at difference frequencies by
	Anderson bridge.
11	To determine the self-inductance of a given coil at difference frequencies by
	Maxwell's bridge.
12	To determine the resistance per unit length of the wire of Carey-Foster's
	bridge.
13	To study the charge and discharge of a condenser through a high resistance and
	hence to determine the time constant.
14	To determine the impedence, inductance and power factor with the help of
	LCR Circuits.
15	To determine the horizontal component of Earth's magnetic field with the help
	of deflection and vibration magnetometers.
16	To determine the reduction factor of tangent galvanometer.

# J. H. Govt. P.G. College Betul (M.P.)

## **Department of Physics**

### **List of Experiments**

## Session: 2023-24

# **Class B.Sc.-II (Minor/Elective)**

S. No.	Name of Experiments
1	To draw the B-H curve of ferro- magnetic material
•	with the help of CRO.
2	To determine the voltage and frequency with the help of CRO.
3	To determine the self-inductance of a given coil at difference
	frequencies by Anderson bridge.
	To determine the self-inductance of a given coil at difference
	frequencies by Maxwell's bridge.
4	To determine the resistance per unit length of the wire of
	Carey-Foster's bridge.
5	To study the charge and discharge of a condenser through a
	high resistance and hence to determine the time constant.
7	To determine the impedence, inductance and power factor
	with the help of LCR Circuits.
8	To determine the horizontal component of Earth's magnetic
	field with the help of deflection and vibration magnetometers.
9	To determine the reduction factor of tangent galvanometer.