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

Department of Physics

List of Experiments Session: 2023-24

Class B.Sc.-III (Minor/Elective)

S. No.	Name of Experiments
1	To Study the characteristic curve of a PN Junction diode.
2	To Study the characteristic curve of a Zener diode.
3	To Study the characteristic curve of a Light Emitting diode (LED).
4	To determine the energy band gap of a semiconductor using PN diode (reverse bias).
5	To determine ripple factor of half wave and full wave rectifier.
6	To study characteristics curves of PNP/NPN transistor in common base mode configuration and determination current gain.
7	To study characteristics curves of PNP/NPN transistor in common emitter mode configuration and determination current gain.
8	To study characteristics curves of junction field effect transistor (JFET).
9	To study frequency response curves of single stage RC amplifiers in CE mode.
10	Study of characteristic curve of solar cell

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List of Experiments Session: 2023-24

Class B.Sc.-III (Major)

S. No.	Name of Experiments
1	Measurement of wavelength of mercury source spectrum by constant deviation spectrograph and celebration of drum.
2	Determination of wavelength of sodium light source with the help of plane transmission grating.
3	Verification of Fresnel's law of reflection.
4	Verify Cauchy's formula using spectrometer.
5	Determination of Stefan's constant.
6	To draw the characteristic curve of Photo cell.
7	Determination of resolving power of plane transmission grating with the help of spectrometer.
8	To determine the resolving power of telescope.
9	To verify Brewster's law with the help of spectrometer.
10	To determine the wavelength of sodium light using calcite prism.
11	To Study the characteristic curve of a PN Junction diode.
12	To Study the characteristic curve of a Zener diode.
13	To Study the characteristic curve of a Light Emitting diode (LED).
14	To determine the energy band gap of a semiconductor using PN diode (reverse bias).
15	To determine ripple factor of half wave and full wave rectifier.
16	To study characteristics curves of PNP/NPN transistor in common base mode configuration and determination current gain.
17	To study characteristics curves of PNP/NPN transistor in common emitter mode configuration and determination current gain.
18	To study characteristics curves of junction field effect transistor (JFET).
19	To study frequency response curves of single stage RC amplifiers in CE mode.
20	Study of characteristic curve of solar cell