

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

Department of Physics

List of Experiments Session: 2023-24

Class B.Sc.-I (Major)

S. No.	Name of Experiments
1	Determination of electromotive force of a thermocouple.
2	Determination of thermal conductivity of a bad conductor by Lees disc method.
3	Verification of Newtons law of cooling.
4	Determination of thermal conductivity of the rubber using calorimeter.
5	Determination of mechanical equivalent of heat (J) using Joule calorimeter.
6	Determination of the temperature coefficient of a resistance with the help of Carey-Foster bridge.
7	Determination of acceleration due to gravity (g) using Bar pendulum
8	Determination of acceleration due to gravity (g) using Katers reversible pendulum.
9	Determination of coefficient of viscosity of liquid using Poiseuilles method
10	Verification of laws of the parallel axes of moment of inertia.
11	Verification of laws of the perpendicular axes of moment of inertia.
12	Determination of modulus of rigidity of material of a wire with the help of Maxwell's needle.
13	Determination of modulus of rigidity of material of a wire with the help of tor single pendulum (disc).
14	Determination of modulus of rigidity of material of a wire with the help of torsional pendulum (cylinder).
15	Determination of Young's modulus of a material of a rod using Cantilever method.
16	Determination of surface tension of a liquid by Jaegers method

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Department of Physics

List of Experiments Session: 2023-24

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

S. No.	Name of Experiments
1	Determination of acceleration due to gravity (g) using Bar pendulum
2	Determination of acceleration due to gravity (g) using Katers reversible pendulum.
3	Determination of coefficient of viscosity of liquid using Poiseuilles method
4	Verification of laws of the parallel axes of moment of inertia.
5	Verification of laws of the perpendicular axes of moment of inertia.
6	Determination of modulus of rigidity of material of a wire with the help of Maxwell's needle.
7	Determination of modulus of rigidity of material of a wire with the help of torsional pendulum (disc).
8	Determination of modulus of rigidity of material of a wire with the help of torsional pendulum (cylinder).
9	Determination of Young's modulus of a material of a rod using Cantilever method.
10	Determination of surface tension of a liquid by Jaegers method