List of Experiments and Projects Undertaken

Session: 2024-25

Sr. No.	Name of Experiment	Class	Number of Beneficiaries	Activity Incharge
Department of Physics				
Experiments in Curriculum				
1.	Determination of Poisson's ratio for rubber/plastic.	B.Sc. I N.M.	64	Dr. Anita Rani
2.	To determine energy transfer, coefficient of restitution and verify laws of conservation of linear momentum and kinetic energy in elastic collisions using one dimensional collisions of hanging spheres.	B.Sc. I N.M.	64	Dr. Anita Rani
3.	To find inductance of coil by using Anderson bridge	B.Sc. I N.M.	64	Dr. Anita Rani
4.	Determination of coefficient of viscosity of a given liquid by Stoke's method and study its temperature dependence.	B.Sc. I N.M.	64	Dr. Anita Rani
5.	To study the magnetic field produced by current carrying Solenoid using search coil and calculate permeability of air.	B.Sc. I N.M.	64	Dr. Anita Rani
6.	To study to torsional vibration, dependence of time period on M.O.I. and restoring torque.	B.Sc. I N.M.	64	Dr. Anita Rani
7.	To study the dependence of moment of inertia on distribution of mass (by noting time periods of oscillations using objects of various geometrical shapes but of same mass).	B.Sc. I N.M.	64	Dr. Anita Rani
8.	To study standing waves on a string.	B.Sc. I N.M.	64	Dr. Anita Rani
9.	To determine low resistance with Carey Fosters Bridge.	B.Sc. I N.M.	64	Dr. Anita Rani
10.	Refractive index measurements for various types of oils using spectrometer setup.	B.Sc. II N.M.	37	Ms. Jeevanjot Kaur
11.	To study the variation of thermo-emf of a Thermocouple with Difference of Temperature of its Two Junctions.	B.Sc. II N.M.	37	Ms. Jeevanjot Kaur

12.	To study Radiation law.	B.Sc. II N.M.	37	Ms. Jeevanjot Kaur
13.	To study interference method	B.Sc. II N.M.	37	Ms. Jeevanjot Kaur
14.	To set up an oscillator and study its output on CRO.	B.Sc. III N.M.	24	Ms. Rajveer Kaur
15.	To draw the Plateau of a GM counter and find its dead time.	B.Sc. III N.M.	24	Ms. Rajveer Kaur
16.	To study the statistical fluctuations using GM counter.	B.Sc. III N.M.	24	Ms. Rajveer Kaur
17.	To study the absorption of beta-particles using GM counter.	B.Sc. III N.M.	24	Ms. Rajveer Kaur
Additional Experiments				
18.	Find frequency of A.C. mains using sonometer	B.Sc. I N.M.	64	Dr. Anita Rani
19.	Find elastic constant by Searle's method	B.Sc. I N.M.	64	Dr. Anita Rani
20.	Coefficient of Viscosity of water by Capillary Flow Method	B.Sc. I N.M.	64	Dr. Anita Rani
21.	Find out electronic charge by Milikan's Oil drop method	B.Sc. I N.M.	64	Dr. Anita Rani
22.	Demonstrate the phenomena of discharge by using Van De Graff Generator	B.Sc. II N.M.	37	Ms. Jeevanjot Kaur
23.	Study Photoelectric effect phenomena	B.Sc. II N.M.	37	Ms. Jeevanjot Kaur
24.	Study the intensity profile of the diffraction pattern of single slit and verify the uncertainty principle by using LASER set up.	B.Sc. II N.M.	37	Jeevanjot Kaur
25.	Verify Thevenin and Norton theorem	B.Sc.III N.M.	24	Ms. Rajveer Kaur
26.	To study characteristics of solar cells	B.Sc.III N.M.	24	Ms. Rajveer Kaur
27.	Study Gaussian distribution of G.M. counter.	B.Sc.III N.M.	24	Ms. Rajveer Kaur
28.	To verify Superposition Theorem.	B.Sc.III N.M.	24	Ms. Rajveer Kaur

29.	IR Remote Control	B.Sc. II N.M.	37	Dr. Anita Rani Ms. Rajveer Kaur Ms. Jeevanjot Kaur Ms. Sandeep Kaur
30.	Fire Alarm	B.Sc. III N.M.	23	
31.	Smart Dustbin	B.Sc. III N.M.	23	
32.	Electronic water tap	B.Sc. III N.M.	23	
33.	Mobile Protection	B.Sc. I N.M.	64	
34.	Water Level Indicator	B.Sc. I N.M.	64	