Govt. College, Alewa (Jind)

<u>Session: 2023-2024 (B.Sc 1stYear)</u> Lesson Plan (Odd Sem)

Name of the Teacher:Dr MANJEET SINGH, ASSISTANT PROFESSOR Subject: PHYSICS (Theory) Class: B. Sc. 1st Sem. Physics Paper: Mechanics Paper's Code: CC/MCC (B23-PHY-101) Max. Marks: 70(External Assessment: 50 Marks, Internal Assessment: 20 Marks) Contact Hours Per Week: 3

C N-	XX7 L-	Tracks
Sr. 10.	week	Ιδρίς
1	24-07-2023 to	
1	29-07-2023	Rotation of rigid body, Moment of inertial, Radius of Gyration,
_	31-07-2023 to	Theorem of perpendicular and parallel axes (with proof), Moment of inertia
2	05-08-2023	of ring, disc, Annular disc,
		Moment of inertia of solid sphere, hollow sphere, solid cylinder, hollow
2	07-08-2023 to	cylinder Moment of inertia of rectangular plate, Square Plate, Triangular
3	12-08-2023	Plate, Solid cone,
	14.00.0000	Torque, angular momentum ,Rotational Kinetic Energy, Law of
4	14-08-2023 to	conservation of Angular Momentum, Rolling Motion, Condition for pure
4	19-08-2023	
	21 08 2022 +2	Acceleration of a body rolling down on an inclined plane, Fly wheel,
5	21-08-2023 10	Class Test
5	20-08-2023	
(28-08-2023 to	Defensive Free Fleckie Lineit Fleckieite Streen en 1 Steele en 14heietere
0	02-09-2023	Deforming Fore, Elastic Limit, Elasticity, Stress and Strain and their types
_	04-09-2023 to	Hook's law, Modulus of elasticity, Relation between shear angle and angle
1	09-09-2023	of twist, Elastic energy stored/volume of elastic body
	11.00.0000	Elongation produced in heavy rod due to its own weight, Elastic potential
0	11-09-2023 to	energy stored in it, Poisson's ratio and its limiting value, Relation between
8	16-09-2023	Young's Modulus, Bulk Modulus and Poisson ratio.
0	18-09-2023 to	Relations between Young's Modulus, Bulk Modulus and Modulus of
9	23-09-2023	
	25.00.2022.4	I orque required for twisting cylinder, Bending of beam, Bending moment
10	25-09-2023 to	and its magnitude, Bending of Cantilever with weight loaded at its free end,
10	30-09-2023	Weight of cantilever distributed over its entire length
		Dispersion of Centrally loaded beam supported at its ends, Elastic constants
	02-10-2023 to	Class Test
11	07-10-2023	
11	09-10-2023 to	Michelson- Morley's experiment and its outcomes. Postulates of special
12	14_10_2023	Theory of relativity concept of Finstein's relativity
12	17-10-2023	Theory of relativity, concept of Ellisten Stelativity,

13		Lorentz transformation, Simultaneity and order of event, Lorentz contraction
14	16-10-2023 to 21-10-2023	Length Contraction, Time Dilation, Relativistic Transformation of Velocity
15	23-10-2023 to 28-10-2023	Relativistic addition of velocities, Velocity addition theorem, Variation of mass with velocity,
16	30-10-2023 to 04-11-2023	Mass energy equivalence, Relativistic Doppler effect Class Test
17	06-11-2023 to 09-11-2023	Law of gravitation, Potential Field due to spherical shell and solid sphere
18	10-11-2023 to 16-11-2023	University Vacations (Diwali)
19	17-11-2023 to 18-11-2023	Motion of Particle under centre force field, Two body problem and its reduction to one body problem and its solution
20	20-11-2023 to 25-11-2023	Determination of g by bar pendulum, Normal Coordinates and Normal modes, Normal modes of vibration of given spring-mass system
21	27-11-2023 to 02-12-2023	Possible angular frequencies of oscillations of two identical simple pendulum length (l) and mass (m) joined together with spring of spring constant (k) Class Test
22	04-12-2023 to 09-12-2023	Revision