

Lesson Plan

Name of the Associate Professor- Swati Sharma

Subject- Physics

Lesson Plan- 17 Weeks (January-April 2018)

Week	Date	Class B.Sc.-II sem (Sec-C) Properties of Matter and kinetic Theory of gases
1.	1-Jan-18	
	2-Jan-18	
	3-Jan-18	
	4-Jan-18	Discussion on basic terms used in unit 1
	5-Jan-18	Holiday
	6-Jan-18	Introduction to Moment of Inertia
	7-Jan-18	Sunday
2.	8-Jan-18	
	9-Jan-18	
	10-Jan-18	
	11-Jan-18	Rotation of rigid body, Moment of inertial, Torque
	12-Jan-18	Angular momentum, Kinetic Energy of rotation
	13-Jan-18	Discussion of conceptual based on above topics
	14-Jan-18	Sunday
3.	15-Jan-18	
	16-Jan-18	
	17-Jan-18	
	18-Jan-18	Theorem of perpendicular and parallel axes (with proof)
	19-Jan-18	Moment of inertia of solid sphere, hollow sphere
	20-Jan-18	Moment of Inertia of spherical shell, solid cylinder
	21-Jan-18	Sunday
4.	22-Jan-18	Vasant Panchami
	23-Jan-18	
	24-Jan-18	Sir Chotu Ram Jayanti
	25-Jan-18	Moment of Inertia of hollow cylinder and solid bar of rectangular cross-section
	26-Jan-18	Republic Day
	27-Jan-18	Fly wheel
	28-Jan-18	Sunday
5.	29-Jan-18	
	30-Jan-18	
	31-Jan-18	Guru Ravi Das Birthday
	1-Feb-18	Acceleration of a body rolling down on an inclined plane
	2-Feb-18	Moment of inertia of an irregular body
	3-Feb-18	Problem discussion of unit 1
	4-Feb-18	Sunday
6.	5-Feb-18	
	6-Feb-18	
	7-Feb-18	
	8-Feb-18	Unit I- TEST
	9-Feb-18	Introduction and Elasticity, Stress and Strain
	10-Feb-18	Maharishi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday

7.	12-Feb-18	
	13-Feb-18	Maha Shivratri
	14-Feb-18	
	15-Feb-18	Hook's law
	16-Feb-18	Elastic constant and their relations
	17-Feb-18	Poisson's ratio, Torsion of cylinder and twisting couple
	18-Feb-18	Sunday
8.	19-Feb-18	
	20-Feb-18	
	21-Feb-18	
	22-Feb-18	Determination of coefficient of modulus of rigidity for the material of wire by Maxwell's needle
	23-Feb-18	Bending of beam (Bending moment and its magnitude)
	24-Feb-18	Cantilever and Centrally loaded beam
	25-Feb-18	Sunday
9.	26-Feb-18	
	27-Feb-18	
	28-Feb-18	Holiday
	1-Mar-18	Holiday
	2-Mar-18	Holiday(HOLI)
	3-Mar-18	Holiday
	4-Mar-18	Sunday
10.	5-Mar-18	
	6-Mar-18	
	7-Mar-18	
	8-Mar-18	Discussion on numericals and conceptual based on above topics
	9-Mar-18	Determination of Young's modulus for the material of the beam
	10-Mar-18	Elastic constants for the material of the wire by Searle's method
	11-Mar-18	Sunday
11.	12-Mar-18	
	13-Mar-18	
	14-Mar-18	
	15-Mar-18	Unit 2- TEST
	16-Mar-18	Introduction and Assumption of Kinetic theory of gases,
	17-Mar-18	Pressure of an ideal gas (with derivation)
	18-Mar-18	Sunday
12.	19-Mar-18	
	20-Mar-18	
	21-Mar-18	
	22-Mar-18	Pressure of an ideal gas (with derivation)
	23-Mar-18	Shaheedi Diwas
	24-Mar-18	Ideal Gas equation, Degree of freedom
	25-Mar-18	Sunday
13.	26-Mar-18	
	27-Mar-18	
	28-Mar-18	
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Law of equipartition of energy and its application for specific heat of gases
	31-Mar-18	Real gases, Vander wall's equation, Brownian motion(Qualitative)
	1-Apr-18	Sunday
14.	2-Apr-18	

	3-Apr-18	
	4-Apr-18	
	5-Apr-18	Kinetic interpretation of Temperature
	6-Apr-18	Introduction of basics to be used in unit 4
	7-Apr-18	Maxwell's distribution of speed and velocities (derivation required)
	8-Apr-18	Sunday
15.	9-Apr-18	
	10-Apr-18	
	11-Apr-18	
	12-Apr-18	Maxwell's distribution of speed and velocities (derivation required)
	13-Apr-18	Experimental verification of Maxwell's law of speed distribution
	14-Apr-18	Dr. Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
16.	16-Apr-18	
	17-Apr-18	
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Most probable speed, average and r.m.s. speed, Mean free path
	20-Apr-18	Transport of energy and momentum, Diffusion of gases
	21-Apr-18	Doubt classes
	22-Apr-18	Sunday
17.	23-Apr-18	
	24-Apr-18	
	25-Apr-18	
	26-Apr-18	Unit-4 test
	27-Apr-18	Discussion on previous year questions
	28-Apr-18	Discussion on previous year questions
	29-Apr-18	Sunday