

## Lesson Plan

Name of the Assistant/ Associate Professor... Babita.....

Class and Section: B.Sc. Ist (Section - I).....

Subject: Physics.....

Week	Date	Topics
1	1-Jan-18	Fr
	2-Jan-18	
	3-Jan-18	
	4-Jan-18	Introduction of elasticity, stress & strain, Hook's law.
	5-Jan-18	stress strain curve, type of elasticity, Poission's ratio.
	6-Jan-18	Energy of strained bodies, Relation between $\chi$ , $K$ and $\sigma$ .
	7-Jan-18	Sunday
2	8-Jan-18	
	9-Jan-18	
	10-Jan-18	
	11-Jan-18	Relation between $\chi$ , $\eta$ and $\sigma$ , Relation between $\chi$ , $\eta$ and $\sigma$ .
	12-Jan-18	Relation between the elastic constants.
	13-Jan-18	Limitation value of poission's ratio, Twisting couple
	14-Jan-18	Sunday
3	15-Jan-18	
	16-Jan-18	
	17-Jan-18	
	18-Jan-18	Bending of beam.
	19-Jan-18	Cantilever Loaded at the free end.
	20-Jan-18	Cantilever loaded at free end - Alternate method.
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Depression of a centrally loaded beam supported at its ends
	26-Jan-18	Republic Day
	27-Jan-18	Depression of uniformly loaded beam at its middle point
	28-Jan-18	Sunday
5	29-Jan-18	
	30-Jan-18	
	31-Jan-18	

## Lesson Plan

Name of the Assistant/ Associate Professor..... Babita.....

Class and Section:..... B.Sc. Ist (Section-I).....

Subject:..... Physics.....

Week	Date	Topics
1	1-Feb-18	Numerical problems of unit-I
	2-Feb-18	Stiffness of a beam, Resilience.
	3-Feb-18	Test of unit-I
	4-Feb-18	Sunday
2	5-Feb-18	
	6-Feb-18	
	7-Feb-18	
	8-Feb-18	Introduction of kinetic theory of gases, and its assumption
	9-Feb-18	Expression for pressure of gas.
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	
	13-Feb-18	Maha Shivratri
	14-Feb-18	
	15-Feb-18	Kinetic interpretation of temperature.
	16-Feb-18	Phase space and its division into cells.
	17-Feb-18	Microstates and macrostates, postulates of statistical mechanics.
	18-Feb-18	Sunday
4	19-Feb-18	
	20-Feb-18	
	21-Feb-18	
	22-Feb-18	Deduction of Maxwell-Boltzmann velocity distribution law.
	23-Feb-18	Deduction of Maxwell-Boltzmann speed distribution law.
	24-Feb-18	Discussion of Maxwell speed distribution law. <sup>most prob</sup> speed.
	25-Feb-18	Sunday
5	26-Feb-18	
	27-Feb-18	
	28-Feb-18	

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Name of the Assistant/ Associate Professor... Babita.....

Class and Section: B.Sc. Ist. (Section - I).....

Subject: Physics.....

Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Expression for average and mean square and root mean square
	4-Mar-18	Sunday
2	5-Mar-18	
	6-Mar-18	
	7-Mar-18	
	8-Mar-18	Experimental verification of maxwell distribution law of speed
	9-Mar-18	degree of freedom law of equipartition of energy.
	10-Mar-18	Specific heat of gases variation of $C_p$ of diatomic gas with
	11-Mar-18	Sunday
3	12-Mar-18	
	13-Mar-18	
	14-Mar-18	
	15-Mar-18	Mean free path and its expression
	16-Mar-18	Transport phenomenon, viscosity
	17-Mar-18	Thermal conduction in gases, diffusion.
	18-Mar-18	Sunday
	4	19-Mar-18
20-Mar-18		
21-Mar-18		
22-Mar-18		Brownian motion and its einstein's theory of translation
23-Mar-18		Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
24-Mar-18		Deviation of real gas behaviour from ideal gas. Result of Andrus experiment
25-Mar-18		Sunday/ Ram Navami
5		26-Mar-18
	27-Mar-18	
	28-Mar-18	
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Vander wall's equation of state of real gases. Vander wall's isotherm
	31-Mar-18	Explanation of deviation by Vander wall's equation, Numerical problems.

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Name of the Assistant/ Associate Professor..... Babita.....

Class and Section:..... B.Sc. Ist (Section-I).....

Subject:..... Physics.....

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	
	3-Apr-18	
	4-Apr-18	
	5-Apr-18	· Test of unit-II
	6-Apr-18	· Introduction of theory of relativity, frame of reference.
	7-Apr-18	· Inertial frame of reference, Galilean transformation.
	8-Apr-18	Sunday
2	9-Apr-18	
	10-Apr-18	
	11-Apr-18	
	12-Apr-18	· Galilean invariance and Newton's relativity principle
	13-Apr-18	· Conservation laws according to Galilean's transformation, search
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi <span style="float: right;">earth</span>
	15-Apr-18	Sunday
3	16-Apr-18	
	17-Apr-18	
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	· Michelson and Morley experiment.
	20-Apr-18	· Special theory of relativity, Lorentz transformation.
	21-Apr-18	· Consequences of Lorentz transformation
	22-Apr-18	Sunday
4	23-Apr-18	
	24-Apr-18	
	25-Apr-18	
	26-Apr-18	· Relativity of mass, Mass energy equivalence, Numerical prob
	27-Apr-18	· Relation between relativistic P & E, experiment <span style="float: right;">evidence of special theory of relativity</span>
	28-Apr-18	· Test of unit-III