

Lesson Plan

Name of the Assistant/ Associate Professor..... Jyoti Soni.....

Class and Section:..... B.Sc. IInd.....,..... Sec - IIIrd.....

Subject:..... PHYSICS.....

Week	Date	Topics
1	1-Jan-18	An introduction of Statistical Physics, Basic terms to be used, Probability
	2-Jan-18	Permutation and Combination, Probability Consideration
	3-Jan-18	Maximum and Minimum Probability, Microstates & Macrostates
	4-Jan-18	Thermodynamic Probability, Distribution of Particles
	5-Jan-18	Constraints, Statistical fluctuation
	6-Jan-18	Important Result on Probability, Phase Space
	7-Jan-18	Sunday
2	8-Jan-18	Stirling (Approx.), Condition of Equilibrium
	9-Jan-18	Postulates of Statistical Physics, Phase Space Cell
	10-Jan-18	Occupation Index, Expression for Probability
	11-Jan-18	Entropy and Probability
	12-Jan-18	Boltzmann Distribution Law, Numericals
	13-Jan-18	Classification of statistics, Basic Concepts in statistics
	14-Jan-18	Sunday
3	15-Jan-18	Quantum statistics, Bose Einstein statistics
	16-Jan-18	Black Body Radiation law, Planck Radiation Law
	17-Jan-18	Test Boltzmann statistics
	18-Jan-18	Bose Einstein Gas
	19-Jan-18	Bose Einstein statistics, Numericals
	20-Jan-18	Test of Statistical Physics Unit - I
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Test on B-E statistics Unit - II
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Bose Einstein Condensation
	26-Jan-18	Republic Day
	27-Jan-18	Limiting Case of Bose Einstein Condensation
	28-Jan-18	Sunday
	29-Jan-18	M-B statistics (Limiting Law)
30-Jan-18	F-D statistics	
31-Jan-18	F-D statistics (Continued)	

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Subject:..... PHYSICS

Week	Date	Topics
1	1-Feb-18	F-D Gas
	2-Feb-18	Degeneracy of Fermi Gas
	3-Feb-18	Degeneracy of fermi Gas (Continued)
	4-Feb-18	Sunday
2	5-Feb-18	Electron Gas in Metal
	6-Feb-18	Composition of Statistics
	7-Feb-18	Specific heat of Metal
	8-Feb-18	Comparisons of Statistics, Numericals
	9-Feb-18	Introduction, Interference in thin films
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Test on Statistical Physics Unit - 3
	13-Feb-18	Maha Shivratri
	14-Feb-18	Colour of thin films
	15-Feb-18	Wedge shaped film
	16-Feb-18	Newton Rings
	17-Feb-18	Newton Rings (Continued)
	18-Feb-18	Sunday
4	19-Feb-18	Determination of Wavelength by Newton Rings
	20-Feb-18	Determination of Refractive Index
	21-Feb-18	Michelson Interferometer
	22-Feb-18	Michelson Interferometer (Continued)
	23-Feb-18	Michelson (Application)
	24-Feb-18	Test on Interference
	25-Feb-18	Sunday
5	26-Feb-18	Introduction, Huygen Principle
	27-Feb-18	Fresnel Assumptions, Classification of Diffraction
	28-Feb-18	Zone Plate & Convex Lens

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Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Fresnel Half period Zones
	4-Mar-18	Sunday
2	5-Mar-18	Fresnel Half Period Zones (continued), Zone Plate
	6-Mar-18	Diffraction at Straight edge
	7-Mar-18	Diffraction at Straight edge (continued)
	8-Mar-18	Diffraction at Rectangular Slit
	9-Mar-18	Diffraction at Circular Aperture
	10-Mar-18	Analytical Treatment of Circular Aperture
	11-Mar-18	Sunday
3	12-Mar-18	Numericals
	13-Mar-18	Fraunhofer Diffraction at single slit
	14-Mar-18	Analytical Treatment
	15-Mar-18	Diffraction at Circular Aperture and double slit
	16-Mar-18	Diffraction at double slit (continued)
	17-Mar-18	Numericals
	18-Mar-18	Sunday
4	19-Mar-18	Test of Unit - I, Paper - II
	20-Mar-18	Diffraction at N-Slit
	21-Mar-18	Diffraction at N-Slit (continued)
	22-Mar-18	Resolving Power
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Dispersive Power of grating
	25-Mar-18	Sunday/ Ram Navami
	5	26-Mar-18
27-Mar-18		Resolving Power of grating
28-Mar-18		Comparison of Prism and grating, Numericals
29-Mar-18		Mahavir Jayanti
30-Mar-18		Problems
31-Mar-18		Test of unit 2, Paper - II

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Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Polarisation
	3-Apr-18	Plane of Polarisation
	4-Apr-18	Polarisation of Refraction
	5-Apr-18	Polarisation by Scattering
	6-Apr-18	Plane of Reflection
	7-Apr-18	Law of Malus
	8-Apr-18	Sunday
2	9-Apr-18	Double Refraction
	10-Apr-18	Optic axis & Principle Section
	11-Apr-18	Polarisation by Double Refraction
	12-Apr-18	Double Refraction (Continued)
	13-Apr-18	Difference b/w positive and Negative Crystals
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Nicol Prism
	17-Apr-18	Nicol Prism (Continued)
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Huygen Theory of Double Refraction
	20-Apr-18	Huygen Theory (Continued)
	21-Apr-18	Types of Polarised Light
	22-Apr-18	Sunday
4	23-Apr-18	Types of Polarised Light (Continue)
	24-Apr-18	Quarter Wave Plate, Half Wave Plate
	25-Apr-18	Production of Polarized Light
	26-Apr-18	Detection of Polarized Light
	27-Apr-18	Numericals, Problems
	28-Apr-18	Test of unit -3, Paper-II