

BSC VIth SEM

Lesson Plan

Name of the Assistant/ Associate Professor: MRS. SANTOSH KURRA
 Class and Section: B.Sc. III (B) (U-6) (Thursday, Friday and Saturday)
 Subject: Solid State and Nano Physic

Week	Date	Topics	
1	1-Jan-18	/	
	2-Jan-18		
	3-Jan-18		
	UNIT I	4-Jan-18	Crystalline and glassy forms, Liquid crystals
		5-Jan-18	Crystalline structure, Periodicity, Lattice, Basis, translational vectors
		6-Jan-18	Unit cell, Primitive cell, Wigner Seitz Primitive cell
		7-Jan-18	Sunday
		8-Jan-18	/
9-Jan-18			
10-Jan-18			
2	11-Jan-18	Symmetry operations for a two dimensional crystal	
	12-Jan-18	Bravais lattices in two and three dimension	
	13-Jan-18	Crystal planes and Miller indices, Interplanar spacing	
	14-Jan-18	Sunday	
	15-Jan-18	/	
	16-Jan-18		
	17-Jan-18		
3	18-Jan-18	Crystal structure of ZnS, NaCl	
	19-Jan-18	Crystal structure of Diamond	
	20-Jan-18	Numerical problems and doubts	
	21-Jan-18	Sunday	
	22-Jan-18	Vasant Panchami	
	23-Jan-18	/	
24-Jan-18	Sir Chhotu Ram Jayanti		
25-Jan-18	Test of Unit I		
UNIT II	26-Jan-18	Republic Day	
	27-Jan-18	X-ray Diffraction (Basic) & Bragg's law	
	28-Jan-18	Sunday	
	29-Jan-18	/	
30-Jan-18	Test		
31-Jan-18			

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Lesson Plan

Name of the Assistant/ Associate Professor: MRS. SANTOSH KURRA

Class and Section: B.Sc VIth SEM SEC B.

Subject: PHYSICS Theory (4-6)

Week	Date	Topics
1	1-Feb-18	Experimental x-ray diffraction methods.
	2-Feb-18	k-space and Reciprocal space.
	3-Feb-18	Physical significance of k-space and Reciprocal space.
	4-Feb-18	Sunday
2	5-Feb-18	/
	6-Feb-18	/
	7-Feb-18	/
	8-Feb-18	Reciprocal lattice vectors.
	9-Feb-18	Reciprocal lattice to simple cubic
	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	Reciprocal lattice to bcc and fcc.
	16-Feb-18	Derive and numeric problems.
	17-Feb-18	Test of Unit II
	18-Feb-18	Sunday
	19-Feb-18	/
4	20-Feb-18	/
	21-Feb-18	/
	22-Feb-18	Historical introduction and survey of superconductivity.
	23-Feb-18	Superconducting systems, High T _c superconductors.
	24-Feb-18	Isotopic effects, Critical Magnetic field
25-Feb-18	Sunday	
5	26-Feb-18	/
	27-Feb-18	/
	28-Feb-18	Uwv Holidays

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Lesson Plan

Name of the Assistant/ Associate Professor: MRS. SANTOSH KURRA
 Class and Section: SC VIth SEM SEC.B (4-6)
 Subject: PHYSICS Theory

Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Unv. holidays
	4-Mar-18	Sunday
2	5-Mar-18	
	6-Mar-18	
	7-Mar-18	
	8-Mar-18	Meissner effect and London theory
	9-Mar-18	London Equation and Pippard's Equation
	10-Mar-18	Classification of superconductors (Type I and type II)
11-Mar-18	Sunday	
3	12-Mar-18	
	13-Mar-18	
	14-Mar-18	
	15-Mar-18	BCS Theory of superconductivity, Flux quantization.
	16-Mar-18	Josephson Effect (AC and DC)
	17-Mar-18	Practical applications of superconductivity and limitations
	18-Mar-18	Sunday
	19-Mar-18	
4	20-Mar-18	
	21-Mar-18	
	22-Mar-18	Power applications of superconductors
	23-Mar-18	Shaheed Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Doubts and numericals
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	
	27-Mar-18	Test
	28-Mar-18	
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Definition and length (Nano) scale
31-Mar-18	Importance of Nano scale and technology.	

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Lesson Plan

Name of the Assistant/ Associate Professor: MRS. SANTOSH KURRA
 Class and Section: B.Sc. VIth SEM SEC. CB (4-C)
 Subject: PHYSICS Theory

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	
	3-Apr-18	
	4-Apr-18	
	5-Apr-18	History of Nano technology, Molecular assembler concept.
	6-Apr-18	Benefits and challenges in molecular manufacturing.
	7-Apr-18	Understanding advanced capabilities
	8-Apr-18	Sunday
2	9-Apr-18	
	10-Apr-18	
	11-Apr-18	
	12-Apr-18	Vision and objective of nanotechnology
	13-Apr-18	Nanotechnology in different fields, Automobiles, Electronics <small>Dr Ambedkar Jayanti / Vaisakhi</small>
	14-Apr-18	
	15-Apr-18	Sunday
3	16-Apr-18	
	17-Apr-18	
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Nanotechnology in medicine, bitech-materials
	20-Apr-18	Bobble and other practical problems
	21-Apr-18	Test of Unit IV
	22-Apr-18	Sunday Conv. practical Exams
4	23-Apr-18	Do
	24-Apr-18	Do
	25-Apr-18	Do
	26-Apr-18	Revision Do
	27-Apr-18	Revision Do
	28-Apr-18	Revision Do

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SANTOSH KURRA