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 Class and Section : B.Sc. IIIrd year , VIth sem , Section – B
 Subject : Solid state and name Physics

Week	Date	Topic
1 UNIT – I	1-Jan-19	
	2-Jan-19	
	3-Jan-19	Crystalline and glassy forms , liquid crystal
	4-Jan-19	Crystalline structure , periodicity , lattice , basis , trans. Vector
	5-Jan-19	Translational vector
	6-Jan-19	Sunday
	2	7-Jan-19
8-Jan-19		
9-Jan-19		
10-Jan-19		Unit cell and primitive cell , wings seitz primitive cell
11-Jan-19		Symmetry operations for a 2-dim. Crystals
12-Jan-19		Bravais lattices in two and three dimension
13-Jan-19		Sunday
3	14-Jan-19	
	15-Jan-19	
	16-Jan-19	
	17-Jan-19	Crystal planes and miller indices , interplanar spacing
	18-Jan-19	Crystal structure of ZnS , Nace
	19-Jan-19	Crystal structure of Diamond
	20-Jan-19	Sunday
4	21-Jan-19	
	22-Jan-19	
	23-Jan-19	
	24-Jan-19	Numerical problems and doubts
	25-Jan-19	Sir Chhotu Ram Jayanti
	26-Jan-19	Republic Day
	27-Jan-19	Sunday
5	28-Jan-19	
	29-Jan-19	
	30-Jan-19	
	31-Jan-19	Test of unit - I

Week	Date	Topic
1 UNIT - II	1-Feb-19	X-ray diffraction , Bragg's law
	2-Feb-19	Experimental X-ray diffraction methods. (1)
	3-Feb-19	Sunday
2	4-Feb-19	
	5-Feb-19	
	6-Feb-19	
	7-Feb-19	Exptal X-ray different methods (2+3)
	8-Feb-19	Reciprocal space and k-space
	9-Feb-19	Physical significance of K-space and reciprocal lattice
	10-Feb-19	VasantPanchami / Sunday
3	11-Feb-19	
	12-Feb-19	
	13-Feb-19	
	14-Feb-19	Reciprocal lattice vectors , Reciprocal lattice to S.C.C.
	15-Feb-19	Reciprocal lattice to b.c.c. and f.c.c.
	16-Feb-19	Numerical problems and doubts
	17-Feb-19	Sunday
4 UNIT -III	18-Feb-19	
	19-Feb-19	Guru Ravi Dass Birthday
	20-Feb-19	
	21-Feb-19	Text / assignment of unit - II
	22-Feb-19	Historical introduction and survey of superconductivity
	23-Feb-19	Superconducting system , High Tc superconductors
	24-Feb-19	Sunday
5	25-Feb-19	
	26-Feb-19	
	27-Feb-19	
	28-Feb-19	Isotopic effect , Critical magnetic field

Week	Date	Topic
1	1-Mar-19	MahaShivratri
	2-Mar-19	Meissner effect and London theory
	3-Mar-19	Sunday
2	4-Mar-19	
	5-Mar-19	
	6-Mar-19	
	7-Mar-19	London equation and pippard's equation
	8-Mar-19	Classification of superconductors (Type – I , type – II)
	9-Mar-19	BCS theory of superconductivity , flux quantization
	10-Mar-19	Sunday
3	11-Mar-19	
	12-Mar-19	
	13-Mar-19	
	14-Mar-19	Josephson effect (AC and DC)
	15-Mar-19	Practical application and limitations of superconductivity
	16-Mar-19	Power applications of superconductors
	17-Mar-19	Sunday
4	18-Mar-19	University Holidays
	19-Mar-19	University Holidays
	20-Mar-19	University Holidays
	21-Mar-19	University Holidays
	22-Mar-19	University Holidays
	23-Mar-19	University Holidays
	24-Mar-19	Sunday
5	25-Mar-19	
	26-Mar-19	
	27-Mar-19	
	28-Mar-19	Test of unit – III / Assignment
	29-Mar-19	Definition of nano and nano length scale
	30-Mar-19	Importance of Nano tech. , Molecular assembler concept
	31-Mar-19	Sunday
UNIT - IV		

Week	Date	Topic
1	1-Apr-19	
	2-Apr-19	
	3-Apr-19	
	4-Apr-19	Benefits and challenges in molecular manufacturing
	5-Apr-19	Understanding advanced capabilities
	6-Apr-19	Vision and objective of Nano tech.
	7-Apr-19	Sunday
2	8-Apr-19	
	9-Apr-19	
	10-Apr-19	
	11-Apr-19	Nanotechnology in medicine , biotech materials
	12-Apr-19	Surface study of nano materials , SEM , TEM , AEM
	13-Apr-19	Nano materials 1d , 2d , 3d
	14-Apr-19	Vaisakhi / AmbedkarJyanti / Sunday
3	15-Apr-19	
	16-Apr-19	
	17-Apr-19	MahavirJayanti
	18-Apr-19	Doubts and other problems
	19-Apr-19	Assignment / Test of unit IV
	20-Apr-19	Revision of unit I
	21-Apr-19	Sunday
4	22-Apr-19	
	23-Apr-19	
	24-Apr-19	
	25-Apr-19	Revision of unit II
	26-Apr-19	Revision of unit III
	27-Apr-19	Revision of unit IV
	28-Apr-19	Sunday
5	29-Apr-19	
	30-Apr-19	

