

Name of Asst. Professor - Nidhi
Subject - Physics

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LAXMI

class - B. Sc. 3rd Year (5th Sem.)

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Experiment No.

Date

Date	Topics
13 July - 2018	Crystalline & glassy forms, Liquid crystal
14 July - 2018	Crystal structure, periodicity
16 July - 2018	Lattice & Basic crystal translation vector
17 July - 2018	Unit cell & primitive cell
18 July - 2018	Wigner seitz primitive cell
19 July 2018	Symmetry operation for a 2-D crystal
20 July 2018	Bravais lattice in 2-D
21 July 2018	Bravais lattice in 3-D
23 July 2018	Crystal Planes & Miller indices
24 July 2018	interplanar spacing
25 July 2018	Crystal structure of ZnS & NaCl
26 July 2018	Crystal structure of Diamond
27 July 2018	X-Ray Diffraction
28 July 2018	Bragg's law & experiment
30 July 2018	X-Ray diffraction Methods
1 August 2018	K-space
2 August 2018	Reciprocal lattice & its physical significance
3 August 2018	Reciprocal lattice to simple cubic
4 August 2018	————— B.C.C
6 August 2018	Reciprocal lattice to f.c.c.
7 August 2018	specific Heat of solid
8 August 2018	Einstein's theory of specific Heat
9 August 2018	Debye Model
10 August 2018	

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Date	Topics
11 August 2018	Failure of E.M. Theory
13 August 2018	Quantum Theory of Radiation
14 August 2017	Photon
16 August 2018	Photoelectric effect
17 August 2018	Einstein's Photoelectric equation
18 August 2018	Compton effect (Theory & Result)
20 August 2018	Inadequacy of old Quantum Theory
21 August 2017	De-Broglie Hypothesis
23 August 2018	Davisson & Germer experiment
24 August 2018	G.P Thomson effect
27 August 2018	Phase velocity
28 August 2018	Group velocity
29 August 2018	Heisenberg's uncertainty Principle
30 August 2018	- Time energy & Angular Momentum
31 August 2018	- Position Uncertainty
1 Sept 2018	Uncertainty principle from de Broglie wave
4 Sept 2018	Gamma Ray Microscope
5 Sept 2018	Electron Diffraction from a slit.
6 Sept 2018	Numericals
7 Sept 2017	Numerical
8 Sept 2017	Numerical
10 Sept 2018	Numericals.
11 Sept 2018	Derivation of time dependent S.E. eqn
12 Sept 2017	see Eiger value

Date	Topics
13 sept 2017	Eigen function
14 sept 2017	Numericals
15 sept 2017	Eigen function
17 sept 2017	Wave function
18 sept. 2017	Physical significance of eigen fun.
19 sept. 2017	Normalization of wave fun.
20 sept 2017	Numericals
21 Sept 2017	Numericals
22 sept. 2017	Numericals
24 sept 2017	Concept of observable & operator
25 Sept 2017	Numericals
26 Sept 2017	Numerical
27 sept. 2017	Solution of schrodinger eq ⁿ
28 sept. 2017	① ground state
29 sep. 2017	② excited state
1 Oct. 2017	Numerical
3 Oct. 2017	Numericals
4 Oct. 2017	Numerical.
5 Oct. 2017	Numericals
6 Oct. 2017	Application of schrodinger eq ⁿ
8 Oct. 2017	one time Problems
9 to Oct. 2017	Numerical
10 Oct. 2017	Numerical
11 Oct. 2017	Numerical

Date	Topics
12 Oct. 2018	Free in one Dim. box
13 Oct. 2018	Solution of Schrodinger wave eq ⁿ
15 Oct. 2018	Numericals
16 Oct. 2018	Numericals
17 Oct. 2018	Eigen values
19 Oct. 2018	Eigen function
20 Oct. 2018	Numericals
22 Oct. 2018	Numerical.
23 Oct. 2018	Quantization of energy
25 Oct. 2018	Quantization of momentum
26 Oct. 2018	Nodes
27 Oct. 2018	Antinode
29 Oct. 2018	zero pt. energy
30 Oct. 2018	One Dim. potential Barrier $E > V_0$
31 Oct. 2018	(Reflection & Transmission coefficient)
2 Nov. 2018	$E > V_0$ (Reflection, Penetration, penetration Depth)
3 Nov. 2018	Numericals
5 Nov. 2018	Numerical.

Widha
15/08/2019