

Lesson Plan July 2018

Name: Abhilasha

Class: B.Sc. 5th sem.

Paper code: Phy 502

Subject Name: Quantum mechanics

16 July to 21 July	Introduction to quantum mechanics,photoelectric effect and einsteins equations,Compton effect..
23 July to 28 July	De broglie hypothesis,Davisson and germer experiment and G.P Thomson experiment.
30 July to 4 Aug	Phase and group velocity .Heisenberg uncertainty principle.
6 Aug to 11 Aug	Wave particle duality,Gamma ray microscope,Electron diffraction from a slit.
13 Aug to 18 Aug	Derivation of time dependent Schrodinger wave equation.
20 Aug to 25 Aug	Eigen values ,eigen functions,wave function and its significance.
27 Aug to 1 Sep	Normalization of wave function , concept of observable and operators.
3 Sep to 8 Sep	Solution of schrodinger equation for harmonic oscillator ground states and excited states.
10 Sep to 15 Sep	Application of schrodinger equation in solutio of one dimensional problems.
17 Sep to 22 Sep	Eigen function ,eigen values ,quantization of energy and momentum,nodes and antinodes,zero point energy.
24 Sep to 29 Sep	One dimensional potential barrier (Reflection and transmission ciefficient)
1 Oct to 6 Oct	One dimensional potential barrier (Reflection coefficient , peneyraton of leakage coefficient , penetration depth)
8 Oct to 13 Oct	Numericals and group discussion
15 Oct to 20 Oct	Revision of unit 3 and test
22 Oct to 27 Oct	Revision of unit 1 and test
29 Oct to 3 Nov	Revision of unit 2 and test.
5 Nov	<u>Group discussion</u>
	<i>6 Nov - 13 Nov (Vacation)</i>
	<i>14 Nov. onwards (Examinations)</i>