

DRONACHARYA

College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Applied Sciences & Humanities

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: PHYSICS II (PHY-102-F)

Name of Faculty with designation : Dr .Vaishali Dixit

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	11.01.2018 Thursday	II-CSIT	1	Space Lattice, Unit Cell, Translational vectors	Assignment of 02 Ques. given
	12.01.2018 Friday	II-CSIT	1	Miller Indices, Simple crystal Structure		Assignment of 02 Ques. given
	18.01.2018 Thursday	II-CSIT	1	X-ray diffraction, Laue Method		Assignment of 02 Ques. given
	19.01.2018 Friday	II-CSIT	1	Powder method, Bonding in Solids, Point defects in solids		Assignment of 02 Ques. given
	25.01.2018 Friday	II-CSIT	1	Elementary idea of Quarks, Gluons and hadros, Difficulties with classical Physics		Assignment of 02 Ques. given
February	01.02.2018 Thursday	II-CSIT	4	Atomic magnetic moments/orbital diamagnetism, classical theory of diamagnetism		Assignment of 02 Ques. given
	02.02.2018 Friday	II-CSIT	4	Theory of diamagnetism		Assignment of 02 Ques. given
	08.02.2018 Thursday	II-CSIT	4	Classical theory of Paramagnetism		Assignment of 02 Ques. given
	09.02.2018 Friday	II-CSIT	4	Ferromagnetism, Molecular fields and domain		Assignment of 02 Ques. given
	22.02.2018 Thursday	II-CSIT	3	Photoconductivity in insulating crystal, effect of traps and application of photo conductivity		Assignment of 02 Ques. given
	23.02.2018 Friday	II-CSIT	3	Photo voltaic cell , solar cells		Assignment of 02 Ques. given
March	08.03.2018 Thursday	II-CSIT	2	Element of classical free electron theory and its limitations,Drude's theory of conduction		Assignment of 02 Ques. given
	09.03.2018 Friday	II-CSIT	2	Quantum theory of free electron		Assignment of 02 Ques. given
	15.03.2018 Thursday	II-CSIT	2	Fermi level and density of state		Assignment of 02 Ques. given
	16.03.2018 Friday	II-CSIT	2	Fermi Dirac distribution function		Assignment of 02 Ques. given

April	05.04.2018 Thursday	II-CSIT	2	Thermionic Emission and Richardson's equation	Assignment of 02 Ques. given
	06.04.2018 Friday	II-CSIT	1	Introduction to Quantum Mechanics- Simple concepts.	Assignment of 02 Ques. given
	12.04.2018 Thursday	II-CSIT	1	Black body radiation, Discovery of plank's constant	Assignment of 02 Ques. given
	13.04.2018 Friday	II-CSIT	1	Group velocity, Phase velocity	Assignment of 02 Ques. given
	26.04.2018 Thursday	II-CSIT	1	Time dependent, independent Schrodinger Wave equation	Assignment of 02 Ques. given
	27.04.2018 Friday	II-CSIT	1	Elementary idea of Quantum Statistics, Particle in a box	Assignment of 02 Ques. given
		II-CSIT	1	Expectation Value and Ehrenfest Theorem	Assignment of 02 Ques. given
		II-CSIT	2	Features of nano systems, Concepts of quantum size effect	Assignment of 02 Ques. given
		II-CSIT	3	Origin of energy band, Kronig Penney model	Assignment of 02 Ques. given
		II-CSIT	3	E K diagram, Brillouin zones ,Concepts of effective mass and hole	Assignment of 02 Ques. given
		II-CSIT	3	Classification of Solids to metals, Semiconductors and insulators	Assignment of 02 Ques. given
		II-CSIT	3	Hall effect and its applications	Assignment of 02 Ques. given