

# 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	08.01.2018 Monday	II-ME	1	Space Lattice, Unit Cell, Translational vectors	.....	Assignment of 02 Ques. given
	11.01.2018 Thursday	II-ME	1	Miller Indices, Simple crystal Structure		Assignment of 02 Ques. given
	15.01.2018 Monday	II-ME	1	X-ray diffraction, Laue Method		Assignment of 02 Ques. given
	18.01.2018 Thursday	II-ME	1	Powder method, Bonding in Solids, Point defects in solids		Assignment of 02 Ques. given
	29.01.2018 Monday	II-ME	1	Elementary idea of Quarks, Gluons and hadros, Difficulties with classical Physics		Assignment of 02 Ques. given
February	05.02.2018 Monday	II-ME	4	Atomic magnetic moments/orbital diamagnetism, classical theory of diamagnetism		Assignment of 02 Ques. given
	08.02.2018 Thursday	II-ME	4	Theory of diamagnetism		Assignment of 02 Ques. given
	19.02.2018 Monday	II-ME	4	Classical theory of Paramagnetism		Assignment of 02 Ques. given
	22.02.2018 Thursday	II-ME	4	Ferromagnetism, Molecular fields and domain		Assignment of 02 Ques. given
	26.02.2018 Monday	II-ME	3	Photoconductivity in insulating crystal, effect of traps and application of photo conductivity		Assignment of 02 Ques. given
II-ME		3	Photo voltaic cell , solar cells		Assignment of 02 Ques. given	
March	05.03.2018 Monday	II-ME	2	Element of classical free electron theory and its limitations,Drude's theory of conduction		Assignment of 02 Ques. given
	08.03.2018 Thursday	II-ME	2	Quantum theory of free electron		Assignment of 02 Ques. given
	12.03.2018 Monday	II-ME	2	Fermi level and density of state		Assignment of 02 Ques. given
	15.03.2018 Thursday	II-ME	2	Fermi Dirac distribution function		Assignment of 02 Ques. given
	25.03.2018 Monday	II-ME	2	Thermionic Emission and Richardson's equation		Assignment of 02 Ques. given
April	02.04.2018 Monday	II-ME	1	Introduction to Quantum Mechanics- Simple concepts.		Assignment of 02 Ques. given
	05.04.2018 Thursday	II-ME	1	Black body radiation, Discovery of plank's constant		Assignment of 02 Ques. given
	09.04.2018 Monday	II-ME	1	Group velocity, Phase velocity		Assignment of 02 Ques. given
	12.04.2018 Thursday	II-ME	1	Time dependent, independent Schrodinger Wave equation		Assignment of 02 Ques. given
	23.04.2018 Monday	II-ME	1	Elementary idea of Quantum Statistics, Particle in a box		Assignment of 02 Ques. given
	26.04.2018 Thursday	II-ME	1	Expectation Value and Ehrenfest Theorem		Assignment of 02 Ques. given
		II-ME	2	Features of nano systems, Concepts of quantum size effect		Assignment of 02 Ques. given
	II-ME	3	Origin of energy band, Kronig Penney model		Assignment of 02 Ques. given	
	II-ME	3	E K diagram, Brillouin zones ,Concepts of effective mass and hole		Assignment of 02 Ques. given	
	II-ME	3	Classification of Solids to metals, Semiconductors and insulators		Assignment of 02 Ques. given	
	II-ME	3	Hall effect and its applications		Assignment of 02 Ques. given	