

Name of the Assistant/Associate Professor

Class and Section: B.SC.1st sem and 5th sem

Subject PHYSICS Quantum & laser physics and Electricity

Week	Date	Topics
	25-Aug-18	Properties of B
	26-Aug-18	Sunday (Raksha Bandhan)
7	27-Aug-18	Orthogonality & Normalization of function
	28-Aug-18	Concept of observer & operator
	29-Aug-18	Expectation values of dynamical quantities ,probability current density
	30-Aug-18	Electronic theory of dia and paramagnetism
	31-Aug-18	same as previous class
	01-Sep-18	Domain theory of ferromagnetism(Langevin's theory)
	02-Sep-18	Sunday
8	03-Sep-18	Janamashatmi
	04-Sep-18	unit 2-free particle in one dimensional box
	05-Sep-18	one dimensional step potential $E > V_0$
	06-Sep-18	Domain theory of ferromagnetism(Langevin's theory)
	07-Sep-18	Cycle of magnetization-Hysteresis loop
	08-Sep-18	Energy dissipation ,Hysteresis loss and its importance
	09-Sep-18	Sunday
9	10-Sep-18	one dimensional step potential $E < V_0$
	11-Sep-18	one dimensional potential barrier $E > V_0$
	12-Sep-18	one dimensional potential barrier $E < V_0$
	13-Sep-18	Unit 3-Maxwell equations and their derivations
	14-Sep-18	Displacement current
	15-Sep-18	Vector and scalar potentials
	16-Sep-18	Sunday
10	17-Sep-18	solution of schrodinger eqn. for harmonic oscillator
	18-Sep-18	same as previous class
	19-Sep-18	same as previous class
	20-Sep-18	Boundary conditions at interface b/w two different media
	21-Sep-18	same as previous class
	22-Sep-18	Propagation of electromagnetic wave
	23-Sep-18	Sunday (Haryana Heroes' Martyrdom Day)
11	24-Sep-18	Unit 3-Absorption and emission of radiation ,Main features of a laser
	25-Sep-18	Directionality ,high intensity ,high degree of coherence
	26-Sep-18	spatial & temporal coherence ,Einstein's coefficients
	27-Sep-18	same as previous class
	28-Sep-18	Poynting vector and poynting theorem
	29-Sep-18	same as previous class
	30-Sep-18	Sunday
	01-Oct-18	possibility of amplification
	02-Oct-18	Mahatama Gandhi Jayanti
	03-Oct-18	Momentum transfer,life time of a level

Tentative date for All

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12	04-Oct-18	Unit-4A.C circuit analysis using complex variable	Co-curricular activities of Societies Oct. 03-06, 2018 (02.00 pm-05.00 pm)
	05-Oct-18	D.C,A.C,Mean value ,R.M.S. value of alternating current	
	06-Oct-18	A.C.circuit analysis using CR	
	07-Oct-18	Sunday	
13	08-Oct-18	Kinetics of optical absorption ,population inversion	
	09-Oct-18	A necessary cond. for high amplification,resonance cavity,laser pump	
	10-Oct-18	Maharaja Agrasen Jayanti	
	11-Oct-18	A.C.circuit analysis using LR	
	12-Oct-18	A.C.circuit analysis using LC	
	13-Oct-18	A.C.circuit analysis using LCR	
	14-Oct-18	Sunday	
14	15-Oct-18	Threshold condition for laser emission ,line broadening mechanism	
	16-Oct-18	Homogeneous & inhomogeneous line Broadening	
	17-Oct-18	same as previous class	
	18-Oct-18	Series and parallel resonant circuit	
	19-Oct-18	Quality factor	
	20-Oct-18	sharpness of resonance	
	21-Oct-18	Sunday	
15	22-Oct-18	He -Ne laser(principle ,construction&working)	
	23-Oct-18	Ruby laser (principle ,construction&working)	
	24-Oct-18	Maharishi Valmiki's Birthday	
	25-Oct-18	Admittance and Impedance	
	26-Oct-18	Numerical related to LCR circuits	
	27-Oct-18	Class test of all units	
	28-Oct-18	Sunday	
16	29-Oct-18	optical properties of semiconductor	
	30-Oct-18	semiconductor laser	
	31-Oct-18	application of lasers in field of medicine & industry	
	01-Nov-18	Haryana Day	
	02-Nov-18	Revision Work	
	03-Nov-18	Revision Work	
	04-Nov-18	Sunday	
17	05-Nov-18	Revision Work	