

Lesson Plan (2021-22) 2023-24

Name of the Assistant: RAVI SHANKAR

Class and Section: B.Sc 1st year (1st & 2nd Sem) :-

Subject: PHYSICS P-1 :- Properties of matter, Kinetic Theory and Relativity
 P-2, Electrostatics, Induction and Electronic Devices

Week	Date	P-1	Topics
1	15/01/2024	Elasticity, Hooke's law, Elastic constant & their Relation	
	16/01/24	Poisson's ratio, Deformation of cylinders and Torsion couple	
	17/01/24	Cross section, Cyclic Torsion	
	18/01/24	Bending of beam, cantilevers	
	19/01/24	Centrally loaded beam	
	20/01/24	Test	
2	22/01/24	Unit - II :- Conductivity, Assumptions of R.T theory of gas, Law of equipartition of energy	
	23/01/24	with applications for specific heat of gases.	
	24/01/24	Maxwell distribution of speeds and	
	25/01/24	Velocities	
	26/01/24	Republic Day	
	27/01/24	Most probable speed, Average and RMS speed	
3	29/01/24	Mean free path, Transport of energy and momentum	
	30/01/24	Diffusion of gases, Brownian motion	
	31/01/24	Real gases, Van der Waals eqn.	
	01/01/24	Test	
	02/01/24	Unit - III :- Introduction, Reference system, inertial frames.	
	03/01/24	Galilean relativity & Conservation laws	
4	05/02/24	Newtonian relativity principle, Michelson-Morley exp. speed of light	
	06/02/24	Length contraction, Time dilation	
	07/02/24	Velocity addition theorem, Velocity of mass with velocity	
	08/02/24	Mass energy equivalence	
	09/02/24	Test	
	10/02/24	P-2nd V-I, introduction, Graphs and decay of current in a circuit	
5	12/02/24	(a) Capacitance & resistance (b) Resistance inductance	
	13/02/24	(c) Capacitance & inductance (d) Capacitance resistance & I	
	14/02/24	Basant Panchami	
	15/02/24	AC circuit analysis using complex variables with (a) CAR	
	16/02/24	(b) R-L inductance (c) Capacitance & inductance	
	17/02/24	(d) Capacitance, inductance & electrolytic series	
6	19/02/24	And parallel resonant circuit.	
	20/02/24	Quality factor	
	21/02/24	Test	
	22/02/24	Unit - 4 :- Introduction, Semiconductor diodes: Energy bands in solids	
	23/02/24	Intrinsic & Extrinsic semiconductor	
	24/02/24	Guru Ramesh Jayanti	
7	26/02/24	Kallidasa	
	27/02/24	PN-Junction diode & their V-I characteristics	
	28/02/24	Zener & avalanche breakdown	

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	29/03/24	Reverse of a diode
	01/03/24	Light Emitting diodes
	02/03/24	Photo Conductors in Semiconductors
8	04/03/24	Photodiode, Solar cell
	05/03/24	Test
	06/03/24	Diode Rectifiers: P-N junction half wave & full wave rectifier
	07/03/24	Types of filter circuits
	08/03/24	Power Controller
	09/03/24	Zener diode as voltage regulator, super regulator / power supply
9	11/03/24	Transistor Junction Transistors, Bipolar Transistors
	12/03/24	Working of NPN & PNP transistors
	13/03/24	Transistor connection (C.B, C.E, C.C mode)
	14/03/24	Working of transistor
	15/03/24	Transistor characteristics curves
	16/03/24	advantage of C-B configuration
	18/03/24	C.R.O Test
10	20/03/24	Unit - III ed, introduction of Transistor Amplifiers;
	21/03/24	Transistor biasing
	22/03/24	Method of Transistor biasing and stabilization
	23/03/24	Half Variation
	25/03/24	do
11	26/03/24	do
	27/03/24	do
	28/03/24	do
	29/03/24	do
	30/03/24	do
12	01/04/24	D.C load line
	02/04/24	Common-base & Common-emitter transistor biasing
	03/04/24	Common-base, common-emitter amplifiers
	04/04/24	Classification of amplifiers
	05/04/24	Resistor & Capacitor (R.C) coupled amplifiers
	06/04/24	Feed-back in amplifiers
13	08/04/24	Advantage of negative feedback amplifier
	09/04/24	Oscillators: Oscillates, Principle of oscillation
	10/04/24	Classification of oscillators

