

## Lesson Plan (2021-22)

Name of the Assistant/ Associate Professor : Devender kumar

Class and Section: B.Sc. 2<sup>nd</sup> semester

Subject: PHYSICS

Date	Topics
21 Mar 2022	Growth and decay of current in a circuit with (a) Capacitance
22 Mar 2022	(b) resistance and inductance(c) Capacitance and inductance
24 Mar 2022	(d) Capacitance resistance and inductance.
25 Mar 2022	AC circuit analysis using complex variables
26 Mar 2022	variables with (a) capacitance and resistance
28 Mar 2022	(b) resistance and inductance, (c) capacitance and inductance
29 Mar 2022	(d) capacitance, inductance and resistance Series, and parallel resonantcircuit
30 Mar 2022	Quality factor (Sharpness of resonance).
31 Mar 2022	Energy bands in solids.
01 April 2022	Intrinsic and extrinsic semiconductor
02 April 2022	Hal leffect and PN junction diode
04 April 2022	Zener and avalanche breakdown
05 April 2022	Light Emitting diodes (LED).
06 April 2022	Numerical Problems
07 April 2022	Solar Cell.
08 April 2022	Discussion on Diode Rectifiers
09 April 2022	P-N junction half wave, full wave rectifier
11 April 2022	Types of filter circuit' Zener diode as voltage regulator
12 April 2022	Numerical problem
13 April 2022	Junction Transistor
15 April 2022	working of NPN,PNP
16 April 2022	Transistor connection C-B,C-E,C-C
18 April 2022	TEST
19 April 2022	Transistor characteristic curve
20 April 2022	C.R. O.
21 April 2022	Discussion on transistor amplifier
22 April 2022	methods of Transistor biasing
23 April 2022	stabilization. D.C load line
25 April 2022	Common-base common emitter transistor biasing
26 April 2022	C-B amflifier, c-e amplifier
27 April 2022	Classification of amplifer

28 April 2022	Resistance-capacitance (R-C) coupled amplifier
29 April 2022	Test
30 April 2022	feed-back in amplifier
02 May 2022	Oscillator
04 May 2022	Principle of Oscillator
05 May 2022	Classification of Oscillator
06 May 2022	Tuned collector common emitter oscillator
07 May 2022	Hartley oscillator, Colpitt's oscillator
09 May 2022	Elasticity, Stress, Strain
10 May 2022	Hook's Law
11 May 2022	Elastic Constants & Their Relation
12 May 2022	Numericals
13 May 2022	Poisson's Ratio, Torsion OF Cylinder
14 May 2022	Twisting Couple
16 May 2022	Coeff. Of Modulus of Rigidity
17 May 2022	Bending of Beam
18 May 2022	Cantilever & Centrally Loaded Beam
19 May 2022	Test
20 May 2022	Youngs Modulus for Material of Beam
21 May 2022	Assumption of Kinetic Theory of gases
23 May 2022	Pressure for ideal gas
24 May 2022	Kinetic interpretation of temp.
25 May 2022	Degree of Freedom
26 May 2022	Law of equipartition of energy
27 May 2022	Specific heat of gases
28 May 2022	Real Gases
30 May 2022	Vander wall's Equation
31 May 2022	Brownian motion
01 June 2022	Test
03 June 2022	Maxwell distribution of speed
04 June 2022	Maxwell distribution of velocity

06 June 2022	Most Probable Speed
07 June 2022	Average Speed
08 June 2022	R.M.S Speed
09 June 2022	Numericals
10 June 2022	Transport Phenomena
11 June 2022	Basic
13 June 2022	Transport of Energy
15 June 2022	Transport of Momentum
16 June 2022	Numericals
17 June 2022	Diffusion of Gases
18 June 2022	Theory of relativity introduction
20 June 2022	Reference systems, inertial frames
21 June 2022	Gallilean invariance and
22 June 2022	Conservation laws
23 June 2022	Newtonian relativity principle
24 June 2022	Michelson - Morley experiment
25 June 2022	Search for ether. Lorentz transformations
27 June 2022	Search for ether. Lorentz transformations
28 June 2022	length contraction
29 June 2022	time dilation
30 June 2022	Velocity addition theorem
01 July 2022	variation of mass with velocity
02 July 2022	mass energy equivalence
28 June 2022	Problems
29 June 2022	Revision
30 June 2022	Revision
01 July 2022	Revision
02 July 2022	Revision
04 July 2022	Revision
05 July 2022	Revision
06 July 2022	Revision
07 July 2022	Revision
08 July 2022	Revision
09 July 2022	Revision
11 July 2022	Revision
12 July 2022	Revision

13 July 2022	Continued.....
14 July 2022	Continued.....
15 July 2022	Continued.....
16 July 2022	Continued.....