

LESSON PLAN SESSION 2021-2022 (PHYSICS) MECHANICS (Sem. 1 ST)			
S.No	WEEK	TOPIC	REMARK
1	04.10.2021- 09.10.2021	UNIT I Moment of inertia, torque, angular momentum, kinetic energy of rotation.	
2	11.10.2021- 16.10.2021	Theorems of Parallel and perpendicular axes with proof.	
3	18.10.2021- 23.10.2021	Moment of inertia of solid sphere, spherical shell, solid cylinder	
4	25.10.2021- 30.10.2021	Acceleration of a body rolling down an inclined plane	
	01.11.2021 - 07.11.2021	DIWALI BREAK	
5	08.11.2021- 13.11.2021	UNIT II Hamilton's variation principle, Lagrange's equation of motion	
6	15.11.2021- 20.11.2021	Hamilton's Principle, Linear harmonic oscillator	
7	22.11.2021- 27.11.2021	Simple Pendulum, Atwood's machine	
8	01.12.2021- 04.12.2021	Test	
9	06.12.2021- 11.12.2021	UNIT III Conservation laws of linear momentum	
10	13.12.2021- 18.12.2021	Conservation laws of angular momentum	
11	20.12.2021- 25.12.2021	Conservation laws of mechanical energy for single particle	
12	27.12.2021- 31.12.2021	Conservation laws of linear momentum	
13	03.01.2022- 08.01.2022	Conservation laws of angular momentum for systems of particle	
14	10.01.2022- 15.01.2022	Conservation laws of mechanical energy for systems of particle	
15	17.01.2022- 22.01.2022	REVISION & TEST	
16	24.01.2022- 29.01.2022	REVISION & TEST	
17	01.02.2022- 05.02.2022	REVISION & TEST	
18	07.02.2022- 12.02.2022	REVISION & TEST	
19	14.02.2022	Examination	

LESSON PLAN SESSION 2021-2022 (PHYSICS)
Computer Programming, Thermodynamics (Sem. 3rd)

S.No	WEEK	TOPIC	REMARK
1	04.10.2021- 09.10.2021	Unit-I Binary representation, Algorithm development, flow charts and their interpretation.	
2	11.10.2021- 16.10.2021	Unit-II Thermodynamics-I : Second law of thermodynamics, Carnot theorem	
3	18.10.2021- 23.10.2021	Absolute scale of temperature, Absolute Zero	
4	25.10.2021- 30.10.2021	Entropy, show that $dQ/T=O$, T-S diagram	
	01.11.2021 - 07.11.2021	DIWALI BREAK	
5	08.11.2021- 13.11.2021	Joule's free expansion, Joule Thomson (Porous plug) experiment. Joule - Thomson effect	
6	15.11.2021- 20.11.2021	Liquefaction of gases.	
7	22.11.2021- 27.11.2021	Air pollution due to internal combustion Engine	
8	01.12.2021- 04.12.2021	Unit-III Thermodynamics-II : Derivation of Clausius - Claperyron latent heat equation.	
9	06.12.2021- 11.12.2021	Phase diagram and triple point of a substance	
10	13.12.2021- 18.12.2021	Development of Maxwell thermo dynamical relations	
11	20.12.2021- 25.12.2021	Application of Maxwell relations in the derivation of Relations between entropy, specific heats and thermodynamic variables.	
12	27.12.2021- 31.12.2021	Application of Maxwell relations	
13	03.01.2022- 08.01.2022	Thermodynamic functions : Internal energy (U), Helmholtz function (F)	
14	10.01.2022- 15.01.2022	Thermodynamic functions : Enthalpy (H), Gibbs function (G)	
15	17.01.2022- 22.01.2022	Relations between Thermodynamic functions	
16	24.01.2022- 29.01.2022	REVISION & TEST	
17	01.02.2022- 05.02.2022	REVISION & TEST	
18	07.02.2022- 12.02.2022	REVISION & TEST	
19	14.02.2022	Examination	

LESSON PLAN SESSION 2021-2022 (PHYSICS)
SOLID STATE PHYSICS (Sem. 5th)

S.No	WEEK	TOPIC	REMARK
1	04.10.2021- 09.10.2021	Unit-I Crystalline and glassy forms, liquid crystals, symmetry operations for a two dimensional crystal,	
2	11.10.2021- 16.10.2021	Bravais lattices in two	
3	18.10.2021- 23.10.2021	Bravais lattices in three dimensions	
4	25.10.2021- 30.10.2021	Unit cell and primitive cell Wigner Seitz primitive Cell	
	01.11.2021 - 07.11.2021	DIWALI BREAK	
5	08.11.2021- 13.11.2021	Unit-II Miller indices, Crystal planes, Interplanar spacing,	
6	15.11.2021- 20.11.2021	Crystal structures of Zinc sulphide, Sodium Chloride	
7	22.11.2021- 27.11.2021	Crystal structures of diamond	
8	01.12.2021- 04.12.2021	Numerical, Crystal density	
9	06.12.2021- 11.12.2021	X -ray diffraction, Bragg's Law, x-ray diffraction methods	
10	13.12.2021- 18.12.2021	x-ray diffraction methods	
11	20.12.2021- 25.12.2021	Test	
12	27.12.2021- 31.12.2021	Unit –III Reciprocal lattice and its physical significance,	
13	03.01.2022- 08.01.2022	Reciprocal lattice vector to a simple Cubic lattice, b.c.c. and f.c.c.	
14	10.01.2022- 15.01.2022	Einstein theory of specific heat	
15	17.01.2022- 22.01.2022	Debye model of specific heat of solids	
16	24.01.2022- 29.01.2022	Revision and Test	
17	01.02.2022- 05.02.2022	Revision and Test	
18	07.02.2022- 12.02.2022	Revision and Test	
19	14.02.2022	Examination	