

DATE	LECTURE NO	TEACHER NAME	UNIT NAME	TOPIC NAME
06/02/25	10	SKT	304A-PHY UNIT-2	X-Ray diffraction and Bragg's Law.
07/02/25	11	"	"	Experimented Method - Lau, Rotating Crystal
08/02/25	12	"	"	Powdered Method
10/02/25	09	AV	304B-PHY UNIT-2	Liquid drop model, Mathe Weizsacker mass formula
11/02/25	10	"	"	Single particle Shell Model.
13/02/25	13	SKT.	304A-PHY UNIT-2.	Derivation of scattered wave amplitude, Reciprocal Lattice
14/02/25	14	"	"	Relation between Direct and reciprocal Lattice.
15/02/25	15	"	CT	CLASS TEACHING
17/02/25	11	AV	304B-PHY UNIT-2.	Nuclear Reaction Both Notation Types of Nuclear reactions.
18/02/25	12	"	"	Conservation laws. Cross section of Nuclear Reaction.
19/02/25	13	"	"	Nuclear Fission (Qualitative) Nuclear Reactors, Fusion.
20/2/25	16	SKT	304A-PHY UNIT-2.	Reciprocal Lattice of SC BCC and FCC Lattice.
21/2/25	17	SKT	304A-PHY UNIT-3.	Basis of crystal Binding Ionic, Covalent, Metallic etc
22/2/25	18	SKT	CT.	CLASS TEACHING
24/2/25	14	AV	304B-PHY UNIT-3.	Accelerator, Working of - Van de Graff accelerator, Cyclotron
25/2/25	15	AV	"	Detector: Theory, Application of GM Counter, Semiconductor det.
27/2/25	19	SKT	304A-PHY UNIT-3	Equilibrium Lattice Constant- Cohesive Energy

DATE	LECTURE NO	TEACHER NAME	UNIT NAME	TOPIC NAME
16/01/25	1	SKT.	UNIT - 1. Lattice & Crystal	Basic Crystal structure Translational vector
17/01/25	2	"	"	Primitive and Non Primitive Cells.
18/01/25	3	SKT.	CT	CLASS-TEACHING
20/01/25	1	AV	304 B. UNIT 1	General properties of nucleus.
21/01/25	2	"	"	"
22/01/25	3	"	"	Magnetic Dipole moment vectors. Electric Q. Pole.
23/01/25	4	SKT	304 A UNIT - 1.	2D and 3D Bravais Lattice Parameter of Cubic lattice.
24/01/25	5	"	"	Lattice plane and Miller Indices.
25/01/25	6	"	CT	CLASS TEACHING
27/01/25	4	AV	304 B UNIT - 1.	Nuclear forces Deutrium G.S. Properties.
28/01/25	5	"	"	Radio Active decays.
29/01/25	6	"	"	Nuclear Stability β minus decay.
30/01/25	7	SKT	304 A UNIT - 1.	Lattice plane and Miller Indices.
31/01/25	8	SKT.		Diamond, Cubic Zinc Sulphide, NaCl Cesium Chloride
01/02/25	9	"	304 A UNIT - 2.	CLASS-TEACHING
4/02/25	7	AV	304 B UNIT - 1	β Plus decay, α -decay γ -decay Electron Capture
5/02/25	8	AV.	"	Fundamental law of radio active disintegration.

DATE	LECTURE NO	TEACHER NAME	UNIT NAME	TOPIC NAME
28/02/25	20	SKT	304 A-PHY UNIT-3.	Compressibility, Bulk modulus Ionic Crystal Cohesive Energy.
01/03/25	21	"	C.T	CLASS TEACHING
03/03/25	22	A. SKT.	304-B PHY UNIT 4.	Fundamental Interaction & mediating Quanta.
04/03/25	23	"	"	Concept of antiparticle. Classification of Elementary particle
05/03/25	24	"	"	Intrinsic Spin, mass, Interaction & lifetime. Linear momentum.
06/03/25	25	"	304 A PHY. UNIT 4.	Lattice Vibration Linear - mono di-atomic chain.
07/03/25	26	"	"	Dispersion Relation and. Acoustical & Optical Branch
08/03/25	27	"	C.T.	CLASS TEACHING.
10/03/25	28	"	304B-PHY UNIT-4	Family of Leptons Mesons Baryons & Baryon Resonance.
11/03/25	29	"	"	Conservation law of mass Energy, Linear Momentum.
17/03/25	30	"	304A-PHY UNIT-4.	Einstein Theory of Lattice heat Capacity.
18/03/25	31	"	"	Free Electron Theory : Fermi energy Density of state, H.E. of Electron
19/03/25	32	"	"	Paramagnetic susceptibility conduction Electron and Hall Effect.
20/03/25	33	"	304B-PHY UNIT-4	Angular Momentum, Electric charge Baryonic Charge
21/03/25	34	"	"	Leptonic Charge Iso-spin & strangeness, Quark model
22/03/25	35	"	304A-PHY UNIT-4.	CLASS TEACHING.
24/3/25 to 29/3/25 Mid Term Exam.				

DATE	LECTURE NO	TEACHER NAME	UNIT NAME	TOPIC NAME
01/04/25	40	SKT	PHY - 305A UNIT. 1	Fermi Energy, Electron density CB, Hole density V.B.
02/04/25	41	"	"	Drift of charge Carrier Diffusion of charge carriers
03/04/25	42	"	"	Work function, Barrier Potential
04/04/25	43	"	PHY-305B UNIT 1	Number System Binary Octal Decimal
05/04/25	44	"	"	Hexadecimal Numbers
06/04/25	45	"	CT	Class Teaching.
07/04/25	46	"	PHY-305A UNIT -2.	Analysis of Transistor Amplifier using H-model.
08/4/25	47	"	PHY-305A UNIT-3.	JFET. CS CD CG Configuration. operation in different region.
09/4/25	48	"	"	Importance of different Terms.
11/4/25	49	"	PHY-305B. UNIT.-1	Parity Gray ASCII & EBCDIC Cods and Their advantage
12/4/25	50.	"	"	BINARY ARITHMETICS.
15/4/25	51	"	CT.	CLASS TEACHING.
16/4/25	52	"	MOSFET UNIT -3.	DE-MOSFET, E-MOSFET. Characteristics.
17/4/25	53	"	"	Comparison JFET and MOSFET.
19/4/25	54	"	305-PHY(A) UNIT-4.	SCR: Equivalent circuit Working.
21/4/25	55	"	305B-PHY. UNIT -3	LOGIC GATES, OR, NOT, NOR, AND NAND, EX-OR -
22/4/25	56	"	"	DE MORGAN THEOREM. BOOLEAN ALGEBRA

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