LESSON PLAN (Even Semester) Session 2023-24

Class: B.Sc - 3rd year (N. Med.) & Med. **Subject:** PHYSICS & EVS

Name of Assistant Professor	Period	Topics to be covered	Assignments/ Test
LAXMIKANT	01.01.24 to 15.01.24	Paper-I (Unit-4):- Definition, Importance of Nano-scale, History of NanoTechnology, Vision & Objectives, Applications of Nano Technology. EVS Unit-1	
	16.01.24 to 31.01.24	Unit-1:- Crystalline & Glassy Solids, Translational Vectors, Symmetry operations, Interplanar spacing Zinc Sulphide, NaCl & Diamond Str.	
	01.02.24 to 15.02.24	Unit-2:- X-Ray Diff., Bragg's law, K-Space, Reciprocal lattice, S.C.C, B.C.C and F.C.C. Structures, EVS Unit-2	Assign-I Test-I
	16.02.24 to 29.02.24	Unit-3:- Introduction, Super Conducting System, Meissner Effect, Type I & Type II superc. BCS Theory, Applications.	
	01.03.24 to 15.03.24	Paper-II (Unit-1):- Emission & Abs. spectra, Bohr Atomic Model, Millikan Sommerfeld Rule, Vector Atom Model, Trans. Probability EVS Unit-3	
	16.03.24 to 31.03.24	Unit-2:- Bohr magneton, Larmor Precession and Theorem, Penet. and Non-Pen. Orbits, Hydrogen Fine spectra, Alkali Spectra.	
	01.04.24 to 15.04.24	Unit-3:- Vector Atom model for two valance e⁻s, Coupling schemes, LS and jj Coupling, Isotope Effect, Nuclear Spin.	Assign-II Test-II
	16.04.24 to 30.04.24	Zeeman Effect, Lande g. factor, Zeeman pattern of D1 & D2 lines, weak field stark Effect of H-atom. EVS Unit-4	

Teacher's Signature 01/1/2024

LESSON PLAN (Even Semester) Session 2023-24

Class : B.Sc - 2nd year (~~Med~~ & N.Med.) **Subject:** PHYSICS & EVS

Name of Assistant Professor	Period	Topics to be covered	Assignments/ Test
LAXMIKANT	01-01-24 to 15-01-24	Paper-1 (Unit-1) :- Microscopic & Macroscopic systems, Probability, Tossing of 2,3 Coins, Constraints, β-parameter, Entropy & Prob.	
	16-01-24 to 31-01-24	Unit-2 :- Postulates of stat. Physics, Three kinds of statistics, Speed & Velo. dist. laws. EVS - (Unit-1)	
	01-02-24 to 15-02-24	Unit-3 :- B.E. energy dist. law, Fermi-dirac statistics, F.D Gas, zero point energy, M.B distrib., Comparison of three Statistics.	Assign-I Test-I
	16-02-24 to 29-02-24	Unit-4 :- Dulong & Petit's law, Sp. Heat, Einstein's Theory, Debye Model, Comparison. EVS - (Unit-2)	
	01-03-24 to 15-03-24	Paper-2 (Unit-1) :- Polarization by Refl., Refr. & Scattering, Nicol Prism, Fresnel's Theory, optical Rotation, Polarimeters.	
	16-03-24 to 31-03-24	Paper-2 (Unit-2) :- Fourier's thm, even & odd fnc., Applications, Half & full wave Rectifiers. EVS - (Unit-3)	
	01-04-24 to 15-04-24	Unit-3 :- Fourier Transforms & its Properties, Applications, Matrix methods of optics, Unit & Nodal planes, Thin lens System.	Assign-II Test-II
	16-04-24 to 30.04.24	Unit-4 :- Chromatic, Spherical, Coma, optical Fiber, Types, Application, Advantages. EVS - (Unit-4)	

02/01/2024

Teacher's Signature

LESSON PLAN (Even Semester) Session 2023-24

Class : B.Sc - I^st year (N.Mod.) **Subject:** PHYSICS

Name of Assistant Professor	Period	Topics to be covered	Assignments/ Test
LAXMIKANT	01-01-24 to 15-01-24	Paper-1 (Unit-1) :- Rotation of Rigid body, K.E. of Rotation, Hollow and Solid sphere, Fly wheel, Moment of Inertia, Acc. of a body.	
	16-01-24 to 31-01-24	Unit-2 :- Elasticity, Stress & Strain. Torsion of cylinder, Maxwell's Needle, Bending of Beam, young's Modulus, Searle's Method.	
	01-02-24 to 15-02-24	Unit-3 :- Assumptions, Ideal Gas, Degree of Freedom, law of equip. of Energy, Real Gas, Vander Wall's eqn, Brownian Motion.	Assign-I Test-I
	16-02-24 to 29-02-24	Unit:-4 :- Maxwell's dist. of Speed & velocities, Most prob., Avg. and RMS speed, Mean free path, Diffusion of Gases.	
	01-03-24 to 15-03-24	Paper-2 (Unit-1) : Energy bands, Semiconductor types, Zener Diode, LED, Photodiode, Solar cell, Filters, and their types.	
	16-03-24 to 31-03-24	Unit-2 :- NPN & PNP transistors, CB, CE & CC modes, Adv. & disad. D.C load line, Transistor Biasing, Stabilization.	
	01-04-24 to 15-04-24	Unit-3 :- Amplifiers and their classification, Coupling, RC Coupled, Feedback and advantages, distor.	Assign-II Test-II
	16-04-24 to 30-04-24	Unit-4 :- Oscillators, Principle & classification, Barkhausen Criteria, Tuned Collector OSC., C.R.O working	

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