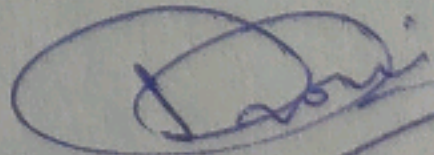


LESSON PLAN (Even Semester) Session 2023-24

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, Wilson 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-Penet. Orbits, Hydrogen Fine spectra, Alkali Spectra.	
	01.04.24 to 15.04.24	Unit-3:- Vector Atom model for two valance e ⁻ , Coupling schemes, LS and JJ coupling, Isotope Effect, Nuclear Spin.	Assign-II Test-II
	16.04.24 to (Unit-4) 30.04.24	Zeeman Effect, Lande g-factor, Zeeman pattern of D1 & D2 lines, weak field Stark Effect, EVS Unit-4 of H-atom.	


Teacher's Signature 02/11/2024

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 Transform & 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, Com. optical Fiber, Types, Application, Advantages. EVS - (Unit-4)	

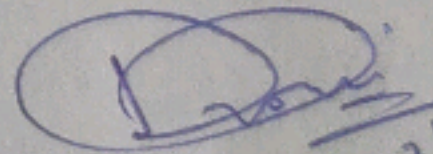

02/01/2024
Teacher's Signature

LESSON PLAN (Even Semester) Session 2023-24

Class : B.Sc - Ist 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, distort.	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.	


 02/01/2024
 Teacher's Signature