

Koyana Education Society Patan
Balasaheb Desai College Patan
Monthly Teaching Plan
Year 2024-25

Department: Physics Class: B. Sc. I, B. Sc. II, B.Sc. Part – III, Paper No.: IX & XI
Month: August 2024 Class: B. Sc. I & B. Sc. III Practical
Name of the teacher: Dr. Mrs. Kumbhar Sneha Suyash

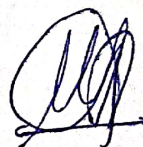
Date/Day	Time	Class	Unit/Sub-Unit	Teaching Methods/ ICT Used
01/08/2024 Thursday	9.30-1.30	B.Sc. III	Practical	
	2.30-3.30	B.Sc. III P - XI	2. Techniques of Calculus of Variation Hamilton's principle	Lecture
02/08/2024 Friday	1.30	B.Sc. I	Practical	
05/08/2024 Monday	10.30-11.30	B.Sc. I P - II	electric potential as line integral of electric field	Lecture
	1.30-2.30	B.Sc. III P - IX	Method of separation of variables for solving second order partial differential equations	Lecture
06/08/2024 Tuesday	9.30-10.30	B.Sc. II P - VI	Absorption coefficient, Sabine's formula for reverberation time	Lecture
	10.30-1.30	B.Sc. III	Practical	
	1.30-2.30	B.Sc. III P - IX	Form of two-dimensional Laplace differential equation in Cartesian coordinates and its solution	Lecture
07/08/2024 Wednesday	12.30-1.30	B.Sc. I P - II	potential due to a point charge	Lecture
	2.30-3.30	B.Sc. III P - XI	Deduction of Hamilton's principle from D'Alembert's principle	Lecture
08/08/2024 Thursday	9.30-10.30	B.Sc. III	Practical	
	2.30-3.30	B.Sc. III P - XI	Deduction of Lagrange's equation from Hamilton's principle	Lecture
09/08/2024	1.30	B.Sc. I	Practical	

Friday				
11/08/2024 Monday	10.30-11.30	B.Sc. I P - II	electric dipole	Lecture, YouTube
	1.30-2.30	B.Sc. III P - IX	Three-dimensional partial differential equation in Cartesian coordinates and its solution	Lecture
12/08/2024 Tuesday	9.30-10.30	B.Sc. II P - VI	Acoustic aspects of halls and auditoria.	Lecture
	10.30-1.30	B.Sc. III	Practical	
	1.30-2.30	B.Sc. III P - IX	The differential equation of progressive wave and its solution.	Lecture
13/08/2024 Wednesday	12.30-1.30	B.Sc. I P - II	uniformly charged spherical shell	Lecture
	2.30-3.30	B.Sc. III P - XI	Applications-shortest distance between two points in a plane	Lecture
14/08/2024 Thursday	9.30-1.30	B.Sc. III	Practical	
	2.30-3.30	B.Sc. III P - XI	Brachistochrone problem	Lecture
15/08/2024 Monday	10.30-11.30	B.Sc. I P - II	uniformly charged solid sphere	Lecture
	1.30-2.30	B.Sc. III P - IX	Revision of Partial differential equation	Discussion
16/08/2024 Tuesday	9.30-10.30	B.Sc. II P - VI	2. Viscosity Rate flow of liquid in a capillary tube - Poiseuille's formula	Lecture
	10.30-1.30	B.Sc. III	Practical	
	1.30-2.30	B.Sc. III P - IX	Test on Partial differential equation	Brainstorming
17/08/2024 Wednesday	12.30-1.30	B. Sc. I P - II	calculation of electric field from potential	Lecture
	2.30-3.30	B.Sc. III P - XI	Revision of Techniques of Calculus of Variation	Discussion & Brainstorming

18/08/2024 Friday	1.30	B.Sc. I	Practical	
19/08/2024 Monday	10.30-11.30	B.Sc. I P – II	Revision of electrostatics	Discussion & brainstorming
	1.30-2.30	B.Sc. III P – IX	UNIT II 1. Charged Particles Dynamics Poisson's and Laplace's equations and their physical significance	Lecture
20/08/2024 Tuesday	9.30-10.30	B.Sc. II P – VI	Rate flow of liquid in a capillary tube - Poiseuille's formula	Lecture
	10.30-1.30	B.Sc. III	Practical	
	1.30-2.30	B.Sc. III P - IX	Laplace's equation in one dimension and its solutions	Lecture
21/08/2024 Wednesday	12.30-1.30	B.Sc. I P – II	3. Dielectrics Dielectric medium	Lecture
	2.30-3.30	B.Sc. III P - XI	UNIT- II 1. Rigid Body Motion Motion of rigid body in space	Lecture
22/08/2024 Thursday	9.30-1.30	B.Sc. III	Practical	
	2.30-3.30	B.Sc. III P -XI	Euler's theorem	Lecture
23/08/2024 Friday	1.30	B.Sc. I	Practical	
26/08/2024 Monday	10.30-11.30	B.Sc. I P – II	Polarisation vector, Displacement vector, electric vector	Lecture
	1.30-2.30	B.Sc. III P – IX	Motion of charged particle - in uniform electric field E	Lecture
27/08/2024 Tuesday	9.30-10.30	B.Sc. II P – VI	experimental determination of coefficient of viscosity of a liquid by Poiseuille's method	Lecture & experiment
	10.30-1.30	B.Sc. III	Practical	
	1.30-2.30	B.Sc. III P – IX	Motion of charged particle in uniform magnetic field B	Lecture

28/08/2024 Wednesday	12.30-1.30	B.Sc. I P – II	Relation between E, P and D vectors,	Lecture
	2.30-3.30	B.Sc. III P – XI	Angular momentum and kinetic energy	Lecture
29/08/2024 Thursday	9.30-1.30	B.Sc. III	Practical	
	2.30-3.30	B.Sc. III P – XI	Euler's equations of motion	Lecture
30/08/2024 Friday	1.30	B.Sc. I	Practical	

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CDR. S.S. Kumbhar)


Head of the
Physics Department