

Koyana Education Society Patan
Balasaheb Desai College Patan
Monthly Teaching Plan
Year 2023-24

Department: Physics

Class: B.Sc. Part – III, Paper No.: XIII & XIV

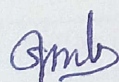
Month: March 2024

Class: B. Sc. II Practical

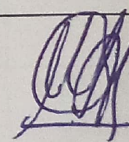
Name of the teacher: Dr. Mrs. Kumbhar Sneha Suyash

Date/Day	Time	Class	Unit/Sub-Unit	Teaching Methods/ ICT Used
01/03/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Kroning–Penny model,	Lecture
02/03/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	Kroning–Penny model,	Lecture
04/03/2024			CL	
05/03/2024 Tuesday	10.30-1.00	B. Sc. II	Practical	
06/03/2024 Wednesday	12.15-1.05	B. Sc. III P-XIII	Classification of elementary particles,	Lecture
	1.15-5.52	B. Sc. III	Practical	
07/03/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Symmetries	Lecture
	12.15-1.05	B. Sc. III P-XIV	Origin of energy gap	Lecture
09/03/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	Velocity of electrons according to band theory,	Lecture
11/03/2024 Monday	12.15-1.05	B. Sc. III P-XIII	Conservation laws- energy, momentum,	Lecture
	1.15-5.25	B. Sc. III	Practical	
12/03/2024 Tuesday	10.30-1.00	B. Sc. II	Practical	
13/03/2024 Wednesday	12.15-1.05	B. Sc. III P-XIII	Conservation laws - angular momentum and parity,	Lecture
	1.15-5.52	B. Sc. III	Practical	
14/03/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Conservation laws - Baryon number, Lepton number	Lecture
	12.15-1.05	B. Sc. III P-XIV	Effective mass of an electron,	Lecture
15/03/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Distinction between metals, semiconductors and insulators,	Lecture

14/02/2024 Wednesday	12.15-1.05	B. Sc. III P-XIII	Wilson cloud chamber,	Lecture
	1.15-5.52	B. Sc. III	Practical	
15/02/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Semiconductor detector,	Lecture, You- tube
	12.15-1.05	B. Sc. III P-XIV	Weiss theory of ferromagnetism and ferromagnetic domains	Lecture
16/02/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Weiss theory of ferromagnetism and ferromagnetic domains	Lecture
17/02/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	Explanation of B-H curve	Lecture
20/02/2024 Tuesday	10.30-1.00	B. Sc. II	Practical	
21/02/2024 Wednesday	12.15-1.05	B. Sc. III P-XIII	Cerenkov radiations, Cerenkov detector	Lecture
	1.15-5.52	B. Sc. III	Practical	
22/02/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Revision	Discussion
	12.15-1.05	B. Sc. III P-XIV	Hysteresis and energy loss	Lecture
23/02/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Revision	Discussion
24/02/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	Question and answer	Brainstorming
26/02/2024 Monday	12.15-1.05	B. Sc. III P-XIII	Question and Answer	Brainstorming
	1.15-5.25	B. Sc. III	Practical	
27/02/2024 Tuesday	10.30-1.00	B. Sc. II	Practical	
28/02/2024 Wednesday	12.15-1.05	B. Sc. III P-XIII	2. Particle Physics Particle interactions	Lecture
	1.15-5.52	B. Sc. III	Practical	
29/02/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Classification of elementary particles,	Lecture
	12.15-1.05	B. Sc. III P-XIV	2. Elementary Band Theory of Solids Concept of density of states, Bloch theorem (statement only)	Lecture



Name of the Teacher
(Dr. Sneha S. Kumbhar)



HOD
Mr. M. D. Jadhav
Physics Department