

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

Department: Physics

Month: February 2024

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

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

Class: B. Sc. II Practical

Date/Day	Time	Class	Unit/Sub-Unit	Teaching Methods/ ICT Used
01/02/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Quenching mechanism,	Lecture
	12.15-1.05	B. Sc. III P-XIV	Unit II - 1. Magnetic Properties of Matter Classical Langevin theory of diamagnetic and paramagnetic materials	Lecture
02/02/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Classical Langevin theory of diamagnetic and paramagnetic materials	Lecture
03/02/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	Quantum mechanical treatment of paramagnetism	Lecture
05/02/2024 Monday			DL (NSS Camp)	
06/02/2024 Tuesday			DL (NSS Camp)	
07/02/2024 Wednesday	12.15-1.05	B. Sc. III P-XIII	Construction of photo-multiplier tube (PMT)	Lecture, You- tube
	1.15-5.52	B. Sc. III	Practical	
08/02/2024 Thursday	11.20-12.15	B. Sc. III P-XIII	Scintillation detector-principle, construction	Lecture, You- tube
	12.15-1.05	B. Sc. III P-XIV	Quantum mechanical treatment of paramagnetism	Lecture
09/02/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Quantum mechanical treatment of paramagnetism	Lecture
10/02/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	Curie's law	Lecture
12/02/2024 Monday	12.15-1.05	B. Sc. III P-XIII	Scintillation detector working	Lecture, You- tube
	1.15-5.25	B. Sc. III	Practical	
13/02/2024 Tuesday	10.30-1.00	B. Sc. II	Practical	

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

Gmb

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

[Signature]

HOD

Mr. M. D. Jadhav
Physics Department