

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

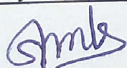
Month: December 2023

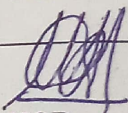
Class: B. Sc. II Practical

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

Date/Day	Time	Class	Unit/Sub-Unit	Teaching Methods/ ICT Used
01/12/2024 Friday	11.20-12.15	B. Sc. III P-XIV	Unit cell- primitive, non-primitive unit cell,	Lecture
02/12/2024 Saturday	12.15-1.05	B. Sc. III P-XIV	symmetry operations	Lecture, You- tube
04/12/2023 Monday	12.15-1.05	B. Sc. III P-XIII	Quantitative facts about Charge density (matter energy)	Lecture
	1.15-5.25	B. Sc. III	Practical	
05/12/2023 Tuesday	10.30-1.00	B. Sc. II	Practical	
06/12/2023 Wednesday	12.15-1.05	B. Sc. III P-XIII	Binding energy	Lecture
	1.15-5.52	B. Sc. III	Practical	
07/12/2023 Thursday	11.20-12.15	B. Sc. III P-XIII	Average binding energy and its variation with mass number,	Lecture
	12.15-1.05	B. Sc. III P-XIV	Symmetry elements of cube	Lecture, You- tube
08/12/2023 Friday	11.20-12.15	B. Sc. III P-XIV	Bravais lattice in two dimensions,	Lecture, You- tube
09/12/2023 Saturday	12.15-1.05	B. Sc. III P-XIV	Bravais lattice in three dimensions,	Lecture, You- tube
11/12/2023 Monday	12.15-1.05	B. Sc. III P-XIII	Liquid drop model approach,	Lecture
	1.15-5.25	B. Sc. III	Practical	
12/12/2023 Tuesday	10.30-1.00	B. Sc. II	Practical	
13/12/2023 Wednesday	12.15-1.05	B. Sc. III P-XIII	Semi empirical mass formula,	Lecture
	1.15-5.52	B. Sc. III	Practical	

14/12/2023 Thursday	11.20-12.15	B. Sc. III P-XIII	Semi empirical mass formula,	Lecture
	12.15-1.05	B. Sc. III P-XIV	Miller indices	Lecture
15/12/2023 Friday	11.20-12.15	B. Sc. III P-XIV	Miller indices and inter-planer spacing	Lecture
16/12/2023 Saturday	12.15-1.05	B. Sc. III P-XIV	Simple crystal structures: SC, BCC	Lecture, You- tube
18/12/2023 Monday	12.15-1.05	B. Sc. III P-XIII	Magic numbers.	Lecture
	1.15-5.25	B. Sc. III	Practical	
19/12/2023 Tuesday	10.30-1.00	B. Sc. II	Practical	
20/12/2023 Wednesday	12.15-1.05	B. Sc. III P-XIII	Revision	Discussion
	1.15-5.25	B. Sc. III	Practical	
21/12/2023 Thursday	11.20-12.15	B. Sc. III P-XIII	Question and Answer	Brainstorming
	12.15-1.05	B. Sc. III P-XIV	FCC and HCP (Co-ordination number, atomic radius, atoms per unit cell and packing fraction)	Lecture, You- tube
22/12/2023 Friday	11.20-12.15	B. Sc. III P-XIV	Revision	Discussion
23/12/2023 Saturday	12.15-1.05	B. Sc. III P-XIV	Question and Answer	Brainstorming
25/12/2023			Christmas Holiday	
26/12/2023			CL	
27/12/2023 Wednesday	12.15-1.05	B. Sc. III P-XIII	2. Particle Accelerators: Need of accelerators, Cyclotron-construction,	Lecture, You- tube
	1.15-5.25	B. Sc. III	Practical	
28/12/2023 Thursday	11.20-12.15	B. Sc. III P-XIII	Cyclotron - working, theory and its limitations	Lecture
	12.15-1.05	B. Sc. III P-XIV	2. X-Ray Diffraction Reciprocal lattice and its properties	Lecture
29/12/2023 Friday	11.20-12.15	B. Sc. III P-XIV	Brillouin zone,	Lecture
30/12/2023 Saturday	12.15-1.05	B. Sc. III P-XIV	Diffraction of X-rays by crystals,	Lecture


Name of the Teacher


HOD
Head of the
Physics Department