

Koyana Education Society's
Balasaheb Desai College, Patan
Department of Chemistry
Monthly Teaching Plan Year-2023-2024
July – 2023 Semester- I

Name of the Teacher- Mr. Shivhar Balaji Ambegave

Date	Unit	Sub unit	Teaching Method Aids
B.Sc.-I			
05/07/2023	Unit III: Aromaticity	Classification of aromatic compounds	Inductive & Deductive
12/07/2023		Structure of Benzene	Lecture
19/07/2023		Kekule structure Modern theory of Aromaticity	Lecture
26/07/2023		Resonance structure	Lecture
B.Sc.-III			
22/07/2023	Unit I: Introduction to Spectroscopy	Meaning of spectroscopy, Nature of electromagnetic radiation: wavelength, frequency, energy, amplitude, wave number and their relationship.	Lecture
06/07/2023		Different units of measurement of wavelength and frequency, Different regions of electromagnetic radiations, Interaction of radiation with matter: absorption, emission, fluorescence and scattering.	Lecture
13/07/2023		Types of spectroscopy and advantages of spectroscopic methods, Energy types and energy levels of atoms and molecules.	Lecture
20/07/2023	Unit 2. UV-visible Spectroscopy	Introduction	Lecture
27/07/2023		Beer-Lambert's law	Lecture
M.Sc.-I			
04/07/2023	Unit I: (A) Reaction Mechanism: Structure and Reactivity	Generation, structure, stability and reactivity of nitrenes.	Lecture
07/07/2023		Effect of structure on reactivity.	Lecture
11/07/2023		Resonance and field, steric effects.	Lecture
14/07/2023		Thermodynamic and Kinetic requirements	Lecture
18/07/2023		Introduction to Kinetic and Thermodynamic control reaction.	Lecture
21/07/2023	Unit I: (B) Aliphatic Nucleophilic substitutions	The SN ₂ , SN ₁ and SN _i reactions with respects to mechanism and stereochemistry	Lecture
25/07/2023		Nucleophilic substitutions at an allylic,	Lecture

28/07/2023		aliphatic trigonal, benzylic, and vinylic carbons	Lecture
M.Sc.-II			
03/07/2023	UNIT-I: Hyphenated Techniques	¹³ CNMR	Lecture
04/07/2023		¹³ CNMR	Lecture
10/07/2023		¹³ CNMR	Lecture
11/07/2023		¹³ CNMR	Lecture
17/07/2023		Mass spectrometry	Lecture
18/07/2023		Basic fundamentals of mass spectrometry	Lecture
24/07/2023		ionization	Lecture
25/07/2023		ionization	Lecture