

Koyana Education Society's
Balasaheb Desai College, Patan
Department of Chemistry
Teaching Plan

October-2023 Semester I, III & V

Name of the Teacher- Mr. Shivhar Balaji Ambegave

Dates	Unit	Sub unit	Teaching Method Aids
B.Sc.-I			
04/10/2023	Unit IV: Heterocyclic Compounds	Classification and Nomenclature of heterocyclic compounds	Lecture
11/10/2023		Nitrogen Heterocycles	Lecture
18/10/2023		Pyrrrole: - Introduction	Lecture
25/10/2023		Synthesis, Physical and chemical properties	Lecture
B.Sc.-III			
05/10/2023	Unit 2. UV-visible Spectroscopy	Calculation of λ_{max}	Inductive & Deductive
12/10/2023		Woodward and Fischer rules for dienes and enones.	Lecture
19/10/2023		Colour and visible spectrum.	Lecture using ICT
26/10/2023		Applications of UV Spectroscopy.	Lecture
M.Sc.-I			
03/10/2023	UNIT-III: (B) Study of following reactions	Prins and Wurtz-Fittig reaction	Lecture
06/10/2023		Hunsdiecker reaction	Lecture
10/10/2023		Pummerer reaction	Lecture
13/10/2023		Rupe rearrngment	Lecture
17/10/2023		Gabriel–Colman Synthesis	Lecture
20/10/2023		Corey-Chaykovsky reaction	Lecture
27/10/2023		Nef reaction, Passerini reaction	Lecture
31/10/2023		Baylis-Hilman reaction, Mitsunobu Reaction	Lecture
M.Sc.-II			
03/10/2023	UNIT – III: (A) Clinical Analysis	Sample collection and preservation of physiological fluids,	Lecture
09/10/2023		analytical methods to the constituents of physiological fluids (blood, urine and serum) Blood- Estimation of glucose, cholesterol urea, hemoglobin and bilirubin	Lecture using ICT
10/10/2023		Urine- urea, uric acid, creatinine, calcium, phosphate, sodium potassium and chloride.	Lecture
16/10/2023	UNIT – III: (B) Body fluid analysis	Composition and detection of abnormal level of certain constituents leading to diagnosis	Lecture

		of diseases.	
17/10/2023		Sample collection and preservation of physiological fluids, analytical methods to the constituents of physiological fluids	Lecture
23/10/2023		(blood, urine and serum) Blood- Estimation of glucose	Lecture
30/10/2023		cholesterol, urea, hemoglobin and bilirubin Urine- urea, uric acid	Lecture
31/10/2023		creatinine, calcium, phosphate, sodium, potassium and chloride.	Lecture