


Koyana Education Society's
Balasaheb Desai College, Patan
Department of Chemistry
Monthly Teaching Plan-Year-2023-2024
October – 2023 Semester – III & V

Name of the Teacher- Prof. Dr. M. R. Kadam

Dates	Unit	Sub unit	Teaching Method and Aids
B.Sc.-II Theory			Teaching method Lecture, Inductive Deductive Discussion Teaching Aids Computer LCD PPT Google Classroom YouTube
04/10/2023	Unit IV. Chromatographic techniques	Introduction, classification.	
05/10/2023		Column chromatography: Introduction, types, Principle of adsorption column chromatography, solvent system, stationary phases,	
11/10/2023		Column chromatography: Methodology-Column packing, applications of sample, development, detection methods, recovery of components, Applications.	
12/10/2023			
18/10/2023		Ion exchange chromatography: Introduction, Principle,	
25/10/2023		Ion exchange chromatography: Types and properties of ion exchangers	
26/10/2023		IEC: Methodology - Column packing, application of sample, elution, detection/analysis, Applications.	
B.Sc.-III Theory			
03/10/2023	Unit 4. Potentiometric titrations	Introduction, Determination of pH.	
09/10/2023		Study of Quinhydrone electrodes and their use in determination of pH.	
10/10/2023		Study of Glass electrodes and their use in determination of pH.	
16/10/2023		Potentiometric titrations: Classical and analytical methods for locating end points. Acids- Bases titration with suitable example.	
17/10/2023		Redox titration with suitable example. Precipitation titration with suitable example.	
23/10/2023		Basic circuit of direct reading potentiometer. Advantages of potentiometric titrations	
B.Sc.-III Practical			
03/10/2023	Organic Chemistry	Oxalate derivative (of Urea).	
10/10/2023		Nitrate derivative of Urea	
13/10/2023		To determine the amount of acid and amide present in the given mixture of acid and amide.	
17/10/2023			
20/10/2023		Qualitative analysis: Benzoic acid + Alpha Naphthol	
27/10/2023			
31/10/2023			

B.Sc.-I Practical			Teaching Aids
04/10/2023	Inorganic Chemistry	To estimate amount of Cu (II) ions by Iodometric titration by using Na ₂ S ₂ O ₃ solution.	
11/10/2023	Physical Chemistry	Determination of equivalent weight of Mg by eudiometer	
18/10/2023		Determination of heat of ionization of weak acid by using polythene bottle.	
25/10/2023		To study the velocity constant of hydrolysis of methyl acetate in presence HCl.	
B.Sc.-II Practical			
13/10/2023	Organic Chemistry	Organic preparations: p-nitro acetanilide from acetanilide	
20/10/2023		Organic preparations: Acetanilide from aniline using anhydrous ZnCl ₂ and Zn dust	
27/10/2023		Organic preparations: Phthalimide from phthalic anhydride	

Class	No. of periods / Lectures					Action Taken
	Planed	Missed	Extra taken	Actual taken	Syllabus Remaining	
B. Sc. I	16	0	0	16	00 Lecture	Completed as per plan
B. Sc. II	19	0	0	19	00 Lecture	
B. Sc. III	41	0	0	41	00 Lecture	


 Dr. M.R. Kadam


PRINCIPAL
 Balasaheb Desai Collage
 Patan, Dist: Satara

