

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


February – 2024 Semester – III & V

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

Dates	Unit	Sub unit	Teaching Method and Aids
B.Sc.-I Theory			Teaching method Lecture, Inductive Deductive Discussion Teaching Aids Computer LCD PPT Google Classroom YouTube
01/02/2024	Unit III: Chromatography	Thin layer chromatography: Rf value, Applications, advantages and disadvantages	
07/02/2024		Comparison of paper chromatography and TLC	
14/02/2024	Unit IV: Theory of Titrimetric Analysis	Introduction, Acid-base indicators	
15/02/2024		Theory of indicators w.r.t. Ostwald's ionization theory and quinoid theory	
21/02/2024		Neutralization curves and choice of indicators for Strong acid-strong base	
22/02/2024		Neutralization curves and choice of indicators for Strong acid-weak base and Strong base-weak acid	
28/02/2024		Complexometric titrations: Introduction Types EDTA titrations	
29/02/2024		Complexometric titrations: Metallochromic indicators-Eriochrome black- T Indicator, Action of Eriochrome black- T	
B.Sc.-III Theory			
05/02/2024	Unit II. Manuf. of Indus. Heavy Chemicals	Manufacture of Sodium carbonate (Na ₂ CO ₃) (Washing soda). Physico-chemical principles.	
12/02/2024		Manufacture of Sodium carbonate by Solvay process	
B.Sc.-III Practical			Teaching Methods Lecture Demonstration Hands on training Lecture
02/02/2024	Inorganic Chemistry	Preparation of tris(thiourea) copper (I) sulphate	
06/02/2024			
09/02/2024		Preparation of ammonium diamminetetraethiocynato chromate (III) (Reineck's salt).	
13/02/2024			
16/02/2024		Gravimetric estimation of barium as barium sulphate (BaSO ₄) from the given solution containing barium chloride, ferric chloride and free hydrochloric acid.	
20/02/2024			
B.Sc.-II Practical			Teaching Aids Practical Handbook
02/02/2024	Physical Chemistry	To study the hydrolysis of methyl acetate in presence of HCl and H ₂ SO ₄ and to determine the relative strength of acids.	
09/02/2024		To study the effect of acid strength on hydrolysis of an ester by using 0.5M HCl and 0.25M HCl.	

16/02/2024		To study the reaction between potassium persulphate and Potassium iodide in Solution with unequal concentration of the reactants.	Laboratory
23/02/2024		To determine the percentage composition of a given liquid mixture by viscosity method	Equipment
B.Sc.-I Practical			
07/02/2024	Organic Chemistry	Organic Qualitative Analysis: Cinnamic acid	
14/02/2024		Organic Qualitative Analysis: Chloroform	
21/02/2024		Organic Qualitative Analysis: Thiourea	
28/02/2024	Chemistry	Discussion on practical examination	

Class	No. of periods / Lectures					Action Taken
	Planed	Missed	Extra taken	Actual taken	Syllabus Remaining	
B. Sc. I	24	0	0	24	00 Lecture	Completed as per plan
B. Sc. II	16	0	0	16	00 Lecture	
B. Sc. III	32	0	0	32	00 Lecture	


 Dr. M.R. Kadam


PRINCIPAL
 Balasaheb Desai Collage
 Patan, Dist: Satara