

I	Course Code	CH 181101			
II	Course Title	Chemistry Laboratory			
III	Credit Structure	L	P	T	C
		0	0	3	1.5
IV	Prerequisite (if any)	Nil			
V	Course Content	<ol style="list-style-type: none"> 1. Complexometric Titration: To estimate hardness of a given water sample by complexometric method 2. Estimation of Acetamide: To estimate Acetamide present in a given solution by hydrolysis method 3. Organic preparation: To prepare acetanilide from aniline 4. Organic preparation: To prepare p-nitro acetanilide from acetanilide 5. Chemical Kinetics (Hydrolysis of an Ester): To determine the rate constant and order of reaction for acid catalyzed hydrolysis of methyl acetate 6. Potentiometric titration: To determine the normality of hydrochloric acid potentiometrically 7. Conductometric titration: To determine the strength of sodium hydroxide solution conductometrically 8. Conductometric titration: To determine the milk adulteration by conductivity measurements. 9. pH metric titration: To determine the strength of HCl solutions in mixture using pH meter 10. Iodometry: To Determine Dissolved Oxygen of a given Water Sample by Winklers Iodometric Method 11. Iodimetric Titration: To determine the strength of given ascorbic acid solution by titrating against standard 0.1 N iodine solution 12. Chemical Oxygen Demand: To determine the Chemical Oxygen Demand (COD) for a given polluted water sample 			
VI	Text books/References	<ol style="list-style-type: none"> 1. D.P. Shoemaker, C.W. Garland and J.W. Nibler: Experiments in Physical Chemistry, McGraw Hill International Edition, 1996 2. V.D. Athawale and P. Mathur: Experimental Physical Chemistry, 1st Edition, New Age International Publication, New Delhi, 2001. 3. J.B. Yadav: Advanced Practical Physical Chemistry, Goel Pub., Meerut, 2003 4. S. M. Khopkar: Basic Concepts of Analytical Chemistry, 3rd Edition, New Age International Publication, New Delhi, 2008 5. P. Samnani: Experiments in Chemistry, Anmol Publication Pvt. Ltd. New Delhi, 2007 			