

			Practical Plan				
	Name of the college: Govt college of Arts Science and Commerce, Sanquelim.						
	Name of Faculty: Varsha K sail			Subject: Concepts in Inorganic and Physical Chemistry-I			
	Paper code:CHC-206			Program: S.Y BSc		Division: Batch 1	
	Academic year: 2026- 2027			Semester: III		Total Practicals/Labs: 30 hrs	
	Credits:02						
	Course Objectives. To use various titrimetric techniques to estimate the analytes. 2. To perform gravimetric methods to estimate metal ions. 3. To prepare coordination compounds.						
	Expected Course Outcome: . To use various titrimetric techniques to estimate the analytes. 2. To perform gravimetric methods to estimate metal ions. 3. To prepare coordination compounds.						
	Student Learning Outcome: . To use various titrimetric techniques to estimate the analytes. 2. To perform gravimetric methods to estimate metal ions. 3. To prepare coordination compounds.						
	Month	Practicals/Labs Scheduled Date		No. of Practicals/Labs planned	List of Experiments	Reference books	
	June	19th	27th		Preparation of 0.1N HCl and standardization with anhydrous Na2CO3/Borax.	1. G.H. Jeffery, J. Bassett, J. Mendham, R. C. Denney, Vogel's	

						Textbook of Quantitative Chemical Analysis, 5 th Edn. ELBS
	july	29 th June	4 th July		2. Estimation of the amount of calcium in the given calcium chloride solution (EDTA method).	
		6 th	11 th		Iodometric determination of the strength of given 0.05 N sodium thiosulphate solution using standard 0.05N K ₂ Cr ₂ O ₇ solution (K ₂ Cr ₂ O ₇ method).	
		13 th	18 th		Determination of the percentage composition of the mixture of NaHCO ₃ and Na ₂ CO ₃ .	
		20 th	25 th		Estimation of Fe as Fe ₂ O ₃ from the given solution of ferric ammonium sulphate/ferric chloride	2.S. Ratan, Experiments in Applied Chemistry, 3 rd Edn. S.K. Kataria & Sons 3.O. P. Pandey, D. N. Bajpai and S. Giri, Practical Chemistry, Revised Edn. S. Chand.
		27 th	1 st Aug		Preparation of Zn(II) Oxalate	
	August	3 rd	8 th		7. Preparation of ZnO (using Zn-oxalate) and investigation of its thermochromic behaviour.	
		10 th	14 th 15 th Holid y		Indexing and determination of lattice parameters of Simple cubic, FCC and BCC crystal systems.	

		17 th	22 nd		To determine the partition coefficient of iodine between 1,2 dichloroethane and water	
		24 th 26 th holiday	29 th		3. To determine the molecular condition of benzoic acid by distribution method	
	Sept	31 st Aug	5 th		4. To draw the phase diagram of binary system; Diphenylamine and α -Naphthol	
		7 th	12 th		5. Determination of molal boiling point elevation constant of NaCl in water system	
		14 th	19 th		GANESH HOLIDAY	
		21 st	26 th		02 6. Determination of molal freezing point depression constant of NaCl and water system	
	Oct	28 th	3 rd oct		Repeat	
		5 th	10 th		Repeat	
		12 th	14 th		Exams	