

	Practical Plan	
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Name of the college: Govt college of Arts Science and Commerce, Sanquelim.		
Name of Faculty: Varsha K sail	Subject: Inorganic chemistry	
Paper code: CHC-301	Program: TY BSc	Division: Batch i
Academic year: 2025- 2026	Semester: V	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	23/06/25	28/06/25	1 practical session of 2 hours each	Volumetric Analysis 1. Determination of the strength of the given H ₂ O ₂ solution using N/20 KMnO ₄ solution.	1. G.H. Jeffery, J. Bassett, J. Mendham, R. C. Denney, Vogel's Textbook of Quantitative Chemical Analysis, 5 th Edn. ELBS
july	30/07/25	5/7/25	1 practical session of 2 hours each	Volumetric Analysis 1. Determination of the strength of the given H ₂ O ₂ solution using N/20 KMnO ₄ solution.	
	7/7/25	12/7/25	1 practical session of 2 hours each	Estimation of the amount of aluminium in the given aluminium sulphate solution by EDTA method (Back titration).	

	14/7/25	19/7/25	1 practical session of 2 hours each	Estimation of the amount of aluminium in the given aluminium sulphate solution by EDTA method (Back titration).	
	21/7/25	26/7/25	1 practical session of 2 hours each	Gravimetric Analysis 3. Estimation of iron as Fe_2O_3 and Ba as BaSO_4 from the given solution of ferric chloride, barium chloride and free HCl..	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.
	28/7/25	2/8/25	1 practical session of 2 hours each	Estimation of iron as Fe_2O_3 and Ba as BaSO_4 from the given solution of ferric chloride, barium chloride and free HCl..	
August	4/8/25	9/8/25	1 practical session of 2 hours each	4. Estimation of barium as BaCrO_4 and Fe as Fe_2O_3 from the given solution of barium chloride, ferric chloride and free HCl	
	11/8/25	16/8/25	1 practical session of 2 hours each	4. Estimation of barium as BaCrO_4 and Fe as Fe_2O_3 from the given solution of barium chloride, ferric chloride and free HCl	
	18/8/25	23/8/25	1 practical session of 2 hours each	5. Estimation of Zn as zinc pyrophosphate in the solution of zinc chloride containing free HCl.	

	25/8/25	30/8/25	1 practical session of 2 hours each	5. Estimation of Zn as zinc pyrophosphate in the solution of zinc chloride containing free HCl.	
Sept	1/9/25	6/9/25	1 practical session of 2 hours each	6. Estimation of Ni as Ni-DMG in the solution of nickel chloride containing copper chloride and free HCl.	
	8/9/25	13/9/25	1 practical session of 2 hours each	Estimation of Ni as Ni-DMG in the solution of nickel chloride containing copper chloride and free HCl.	
	11-09-23	16-09-23	1 practical session of 2 hours each	Inorganic Preparations (ANY TWO) 7. Bis-(ethylenediamine)copper (II) sulphate.	
	25-09-23	30-09-23	1 practical session of 2 hours each	7. Bis-(ethylenediamine)copper (II) sulphate.	
Oct	02-10-23	07-10-23	1 practical session of 2 hours each	8. Preparation of diaquabis-(acetylacetonato)nickel (II)	
	09-10-23	14-10-23	1 practical session of 2 hours each	9. Preparation of tris-(ethylenediamine)nickel (II) thiosulphate	

