Practical Plan

Name of the college: Government college of Arts Science and commerce Sanquelim Goa.		
Name of Faculty: Ms. Varsha Sail	**Subject:** Chemistry	
Paper code: CHC-305	**Program: T.Y.B.Sc**	**Division: A**
Academic year: 2025- 2026	**Semester: VI**	**Total Practical hours: 60 hours**
Credits: 3(shared)		
Course Objectives:-. **. To prepare inorganic coordination compounds.** **2. To use various titrimetric techniques to estimate the analytes.**		

Expected Course Outcome:

Students should learn the basic techniques of gravimetric , volumetric estimation of inorganic compound, preparation of complex compounds.
Understand the chemistry and calulation involved the procedure and estimation

Student Learning Outcome:

Learn to estimation inorganic components by different volumetric methods
Learn the chemistry and technique involved in volumetric estimation and preparation of complex

Month	Lecture from	Lecture to	No. of Practical's/Labs planned	List of Experiments	Reference books
December 2025	1st	6th		1. Preparation of tetraamminecopper (II) sulphate	. J. Mendham, R. C. Denney, J. D. Barnes, M. Thomas, B. Sivasankar, Vogel's Textbook of Quantitative Chemical Analysis, 6th edn., Pearson Education. 2. O. P. Pandey, D. N. Bajpai and S. Giri, Practical Chemistry, Revised Edn., S. Chand. 3. George Brauer, Handbook of Preparative Inorganic Chemistry Vol. 2, 2nd Edition, Academic Press (1964)
	8th	13th	1	Preparation of tris-(acetylacetonato)iron (III)	
	15th	20th	1	Fun week/ mela	

Jan 26	5th	10th	1	Pression	
	12th	17th	1	Determination of the strength (grams/litre) of AgNO3 solution using N/30 NaCl solution by Mohr's Method.	
	19th	24th	1	Estimation of Fe(III) by dichromate method in the given solution of ferric alum by using SnCl2.	
	27th	31st	1	Pression	
Feb 26	2nd	7th	1	Estimation of nitrite present in the given NaNO2 solution by using ceric ammonium sulphate.	
	9th	14th		Estimation of copper from tetraaminecopper (II) sulphate complex by iodometry.	

	16th	21st		Pression	
	23rd	28th		Estimation of magnesium content in talcum powder by complexometric titration (EDTA method).	
March 26	2nd	7th		Determination of acetic acid in commercial vinegar by titrating with approx. 0.05N NaOH solution.	
	9th	14th		Pression	
	16th	21st		Estimation of sodium carbonate content of washing soda.	
	23rd	28th		Determination of hardness of water from given sample by complexometric method.	

	30th	4th		Repeat	

October 13/10/2025-18/10/2025 1 Exam

Assessment Rubrics

Component	Max Marks
ISA 1	
ISA 2	
Practical	
Project	-
Semester End Exam	25