

Odd Semester Lecture Plan

Name of the college: Government College of Arts, Science and Commerce, Sanquelim – Goa.

Name of Faculty: Ms. Rosalina Desilva

Subject: Chemistry Theory and Practical**

Paper code: CHC- 301 Inorganic Chemistry

Program/Course: T.Y. B.Sc.

Division: A

Academic year: 2026 – 2027

Semester: V

Total Lectures: 15

Course Objectives: Practicals-1. To use various titrimetric techniques to estimate the analytes. 2. To perform gravimetric methods to estimate metal ions. 3. To prepare coordination compounds.

Course Learning Outcome:Practicals-1. perform the redox and complexometric titration 2. explain the chemistry behind the strategies used for the removal of interfering ions in gravimetric estimations.3. develop experimental skills in inorganic preparations.

Month	Lectures From: To:	No. of lectures allotted	Topic, Subtopic to be covered	Learning outcome	ICT Tools	Reference books
June 2026	22/6/26 - 27/7/26	02	General Instructions and laboratory safety-B-I & B-II B-III Volumetry-Al v/s EDTA	Students will be able to: apply VBT to Perform complexometric titrations.	Chalk & Talk	1. P.L. Soni and Mohan Katyal, Textbook of Inorganic Chemistry by Sultan Chand and Sons, 20 th Edn (1997) 2. Puri, Sharma and Kalia, Principles of Inorganic Chemistry, 33rd Edition, Vishal Publishing Co. (2018). 3. J.D. Lee, Concise Inorganic Chemistry by Chaman and Hall, 5th ed. (1996). 4. F. A. Cotton and G. Wilkinson, Advanced Inorganic Chemistry, 3 rd Edn. 5. P. W. Atkins, T. Overton, J. Rourke, M. Weller, F. Armstrong, Shriver & Atkins, Inorganic Chemistry, 5th Ed.; Oxford Publications, (2009). 6. K. V. S. Laxmi Devi, N. C. Patel, S.S.
June- July	29/6/26 - 04/7/26	02	Volumetry-H ₂ O ₂ v/sKMnO ₄	Perform redox titrations.	Chalk & Talk	
July	06/7/26 - 11/7/26	02	B-III Inorganic preparation	acquireexperimental skills in inorganic preparation	Chalk & Talk	
July	13/7/26 - 18/7/26	02	B-III Inorganic preparation	acquireexperimental skills in inorganic preparation	Chalk & Talk	
July	21/7/26 - 26/7/26	02	.B-III Inorganic preparation	acquireexperimental skills in inorganic preparation	Chalk & Talk	
July-August	27/7/26-	02	B-III Gravimetry Ni as	acquireexperimental skills	Chalk &	

	01/8/26		Nidmg	in gravimetry	Talk	Dhume, A. Venkatachalam, S. P. Turakhia, Chhaya Dixit and R. A. Mirji, College Inorganic Chemistry for T.Y. B. Sc. 21st Edn, Himalaya Publishing House
August	03/8/26 - 08/8/26	02	B-III Gravimetry as Nidmg	acquirexperimentalskills in gravimetry	Chalk & Talk	
August	10/8/26 - 14/8/26	02	B-III Gravimetry Fe as Fe ₂ O ₃ and Ba as BaSO ₄	acquirexperimentalskills in gravimetry	Chalk & Talk	
August	17/8/26 - 22/8/26	02	B-III Gravimetry Fe as Fe ₂ O ₃ and Ba as BaSO ₄	acquirexperimentalskills in gravimetry	Chalk & Talk	
August	24/8/26 – 29/8/26	02	B-III Gravimetry	acquirexperimentalskills in gravimetry	Chalk & Talk	
September	31/08/26- 05/09/25	02	B-III Gravimetry	acquirexperimentalskills in gravimetry	Chalk & Talk	
September	07/09/26- 12/09/26	02	B-III Gravimetry Ba as BaCrO ₄ and Fe as Fe ₂ O ₃	acquirexperimentalskills in gravimetry	Chalk & Talk	
September	12/09/26- 26/09/26	02	B-III Gravimetry Ba as BaCrO ₄ and Fe as Fe ₂ O ₃	acquirexperimentalskills in gravimetry	Chalk & Talk	
September October	28/09/26- 03/10/26	02	Volumetry-H ₂ O ₂ v/sKMnO ₄	Perform redox titrations.	Chalk & Talk	
October	05/10/26- 10/10/26	02	Repetition		Chalk & Talk	
October	12/10/26- 14/10/26	02	. Repetition		Chalk & Talk	
June- July	29/6/26 - 04/7/26	02	Journal Certification		Chalk & Talk	