

ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

Department of Chemistry

Bankura Christian College

ACADEMIC YEAR: 2023-24 (Semester 2nd /4th /6th)

2nd Semester (Hons) Practical (January,2023 to June, 2023)

Name of faculty member: Dr. Bibekananda Mahanti

Subject: Chemistry

Core P3 - Inorganic Chemistry I Lab

Unit – 1.

Acid and Base Titrations

1. Estimation of carbonate and hydroxide present together in mixture
2. Estimation of carbonate and bicarbonate present together in a mixture.
3. Estimation of free alkali present in different soaps/detergents.

Unit – 2.

Oxidation-Reduction Titrimetric

1. Estimation of Fe(II) using standardized KMnO₄ solution
2. Estimation of oxalic acid and sodium oxalate in a given mixture
3. Estimation of Fe(II) and Fe(III) in a given mixture using K₂Cr₂O₇ solution.

Unit – 3.

4. Estimation of Fe(III) and Mn(II) in a mixture using standardized KMnO₄ solution
5. Estimation of Fe(III) and Cu(II) in a mixture using K₂Cr₂O₇.

Unit – 4.

6. Estimation of Fe(III) and Cr(III) in a mixture using K₂Cr₂O₇.

MONTH/YEAR	WEEK	PORTIONS
March 2023	2 nd	Acid and Base Titrations: 1. Estimation of carbonate and hydroxide present together in mixture
	3 rd	2. Estimation of carbonate and bicarbonate present together in a mixture.
	4 th	3. Estimation of free alkali present in different soaps/detergents.
	5 th	Class Test-1/ Revision of Unt-1
April 2023	1 st	Oxidation-Reduction Titrimetric 1. Estimation of Fe(II) using standardized KMnO ₄ solution
	2 nd	2. Estimation of oxalic acid and sodium oxalate in a given mixture
	3 rd	3. Estimation of Fe(II) and Fe(III) in a given mixture using K ₂ Cr ₂ O ₇ solution.
	4 th	Class Test-2
May 2023	1 st	4. Estimation of Fe(III) and Mn(II) in a mixture using standardized KMnO ₄ solution
	2 nd	5. Estimation of Fe(III) and Cu(II) in a mixture using K ₂ Cr ₂ O ₇ .
	3 rd	5. Estimation of Fe(III) and Cu(II) in a mixture using K ₂ Cr ₂ O ₇ .
	4 th	Revision of Unt-3
June 2023	1 st	6. Estimation of Fe(III) and Cr(III) in a mixture using K ₂ Cr ₂ O ₇ .
	2 nd	6. Estimation of Fe(III) and Cr(III) in a mixture using K ₂ Cr ₂ O ₇ .
	3 rd	Class Test-3