

ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

Department of Chemistry

Bankura Christian College

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

4th Semester (Hons) Practical (March,2023 to June, 2024)

Name of faculty member: Dr.Mahendra Ghosh

Subject: Chemistry

Core P8(Physical Chemistry)

Unit - 1

(a) Theoretical discussion of Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator)

(b) Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator)

Unit – 2

(a) Theoretical discussion of Study of phenol-water phase diagram

(b) Study of phenol-water phase diagram

(c) Theoretical discussion of Potentiometric titration of Mohr' s salt solution against standard K₂Cr₂O₇ solution

(d) Potentiometric titration of Mohr' s salt solution against standard K₂Cr₂O₇ solution

Unit – 3

(a) Theoretical discussion of Determination of K_{sp} for AgCl by potentiometric titration of AgNO₃ solution against standard KCl solution

(b) Determination of K_{sp} for AgCl by potentiometric titration of AgNO₃ solution against standard KCl solution

(c) Theoretical discussion of Effect of ionic strength on the rate of Persulphate- Iodide reaction

(d) Effect of ionic strength on the rate of Persulphate- Iodide reaction

Unit – 4

pH-metric titration of acid (mono- and di-basic) against strong base

MONTH/YEAR	WEEK	PORTIONS
March 2023	3 rd	(a) Theoretical discussion of Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator)
	4 th	(b) Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator)
	5 th	Repeat
April 2023	1 st	(a) Theoretical discussion of Study of phenol-water phase diagram
	2 nd	(b) Study of phenol-water phase diagram
	3 rd	(c) Theoretical discussion of Potentiometric titration of Mohr' s salt solution against standard K ₂ Cr ₂ O ₇ solution
	4 th	(d) Potentiometric titration of Mohr' s salt solution against standard K ₂ Cr ₂ O ₇ solution

May 2023	1 st	(a) Theoretical discussion of Determination of K_{sp} for AgCl by potentiometric titration of AgNO ₃ solution against standard KCl solution
	2 nd	(b) Determination of K_{sp} for AgCl by potentiometric titration of AgNO ₃ solution against standard KCl solution
	3 rd	(c) Theoretical discussion of Effect of ionic strength on the rate of Persulphate- Iodide reaction
	4 th	(d) Effect of ionic strength on the rate of Persulphate- Iodide reaction
June 2023	1 st	pH-metric titration of acid (mono- and di-basic) against strong base
	2 nd	Revision of Unit-1&2
	3 rd	Revision of Unit-3&4