

BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
CHEM-424	Physical Chemistry (Sp. Practical)	2	VIII
Year	Discipline		
4	Chemistry		

SYLLABUS OUTLINE:

1. **Polarimetric Study of Reaction Kinetics:**

Inversion of cane sugar; salt effects on inversion of cane sugar.

2. **Equilibrium constant for the reaction:**



Calculation of ΔG for the formation of I_3^- reaction.

3. **Adsorption measurements:**

Verification of Freundlich and Langmuir adsorption isotherms for Adsorption of acetic acid on active charcoal

4. **Potentiometric measurements:**

A. Potentiometric Titrations

(i) Acid base (ii) Oxidation-reduction

B. Equilibrium constant determination.

RECOMMENDED BOOKS:

1. Advanced Experimental Physical Chemistry by Ayodhya Sing.
2. Experimental Physical Chemistry by Daniel
3. Experimental Physical Chemistry by G.Peter Matthews.
4. Experiments in Physical Chemistry by Shoemake.