BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
CHEM-405	Physical Chemistry (Sp. Practical)	2	VII
Year	Discipline		
4	Chemistry		

SYLLABUS OUTLINE:

1. Molecular Mass Determination of different Polymers by Visosity measurement.

2. Thermo-chemical measurements

- (i) Heat of solution of a salt by solubility methods.
- (ii) Heat of precipitation.

3. Colloidal State:

Preparation of As2 S3 sol, and comparison of precipitating powers of different cations.

4. **Spectrophotometry:**

- (i) Determination of percentage composition of two coloured components in solution.
- (ii) Study of kinetics of iodination of acetone and decomposition of benzene diazonium chloride.
- (iii) Predicting normal modes of vibration for simple molecules and interpretation of their IR Spectra.

RECOMMENDED BOOKS:

- 1. Advanced Experimental Physical Chemistry by Ayodhya Sing.
- 2. Experimental Physical Chemistry by Daniel
- 3. Experimental Physical Chemistry by G.Peter Mattews.
- 4. Experiments in Physical Chemistry by Shoemaker