PHYSICAL CHEMISTRY (BS-ADP 8th Semester)

Module Code:	**Chem-444**
Module title:	**Physical Chemistry Lab - I**
Name of Scheme:	**BS-ADP8th Semester**
Department:	**School of Chemistry**
Faculty:	**Science**
Module Type:	**Compulsory**
Module Rating:	**1 credit**

OBJECTIVES

This course will enable the students to analyze polymer samples and to investigate their properties.

SYLLABUS OUTLINES

1. Molecular Mass Determination of different Polymers by Viscosity measurement.
2. Determination of heat of solution of a substance by solubility methods.
3. Determination of CMC of block copolymer/polymeric surfactant by surface tension method.
4. Preparation of different polymeric systems and their characterization by FTIR.
5. Determination of partial molar properties.

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