

PHYSICAL CHEMISTRY (BS-ADP 8thSemester)

Module Code:	Chem-446
Module title:	Physical Chemistry Lab - II
Name of Scheme:	BS-ADP8thSemester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

Students will be trained for practical applications of spectroscopic methods. They will be able to monitor the progress of a chemical reaction using spectroscopic methods.

SYLLABUS OUTLINES

1. Evaluation of pK_a value of an indicator by spectrometric method.
2. Kinetics of the reaction between methyl orange and peroxodisulphate ions in presence of bromide ions.
3. Spectroscopic determination of Cu percentage in the given sample.
4. Characterization of the given compound by UV-Vis spectroscopy.
5. Determination of molar extinction co-efficient of a colored substance.

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 Shoemaker