

PHYSICAL CHEMISTRY (BS-ADP 8thSemester)

Module Code:	Chem-448
Module title:	Physical Chemistry Lab - III
Name of Scheme:	BS-ADP8thSemester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

Students will learn different experimental skills related to physical chemistry and photochemistry.

SYLLABUS OUTLINES

1. Investigation of the kinetics of hydrolysis of ethyl acetate in the presence of an acid.
2. Determination of the relative strength of acids (HCl and H₂SO₄) studying the hydrolysis of an ester.
3. Verification of Langmuir adsorption isotherm for Adsorption of acetic acid on active charcoal.
4. Determination of surface excess concentration of an emulsifier by surface tension method.
5. Characterization of the given compound by FTIR spectroscopy.

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