

PHYSICAL CHEMISTRY (BS-ADP 7thSemester)

Module Code:	Chem-402
Module title:	Physical Chemistry Lab - I
Name of Scheme:	BS-ADP 7thSemester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

Students will be trained to carry out laboratory work using various techniques including filtration, solvent extraction, spectrophotometric and conducto-metric methodologies.

SYLLABUS OUTLINES

1. Verification of Freundlich adsorption isotherm for Adsorption of acetic acid on active charcoal.
2. Determination of Critical micelle concentration of various ionic surfactants in water.
3. Determination of the partition coefficient of benzoic acid between organic solvent and water.
4. Determination of the partition coefficient of iodine between CCl₄ and H₂O.
5. Preparation of silver sol and its characterization by UV Visible 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.