

ANALYTICAL CHEMISTRY (BS-ADP 8th Semester)

Module Code:	Chem-465
Module title:	Analytical Chemistry Lab - I
Name of Scheme:	BS-ADP 8th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES:

The students will learn the in-hand use of electroanalytical techniques like Voltametry in quantitative analysis of various acids and bases. The students will learn to obtain relevant information from these analyses and interpret the results obtained.

SYLLABUS OUTLINE:

- Reduction of ferricyanide ion using Pt electrode
- Oxidation of acetaminophen using glassy carbon electrode
- Preparation of carbon paste electrode
- Determination of Electrode surface area using cyclic voltammetry using potassium ferricyanide solution
- Effect of scan rate on the electrode properties using potassium ferricyanide solution
- Determination of half-wave potential for various analytes
- Determination of metal ions using anodic stripping voltammetry by carbon paste electrode
- Determination of various organic molecules using voltammetric studies

RECOMMENDED BOOKS:

1. New Instrumental Methods in Electro Chemistry by Faul-Delabay, Inter Science Publisher, London, N.Y.