

ANALYTICAL CHEMISTRY (BS-ADP 5th Semester)

Module Code:	Chem-312
Module title:	Analytical Chemistry Lab
Name of Scheme:	BS-ADP 5th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Optional
Module Rating:	1 credit

OBJECTIVES:

This course will help the students in assessing the analytical data regarding calibration. The students will be able to apply various statistical tests to interpret their observations and the obtained data of analytical apparatus.

SYLLABUS OUTLINE:

1. Calibration

Calibration of glassware (pipette, burette and flask) used for volumetric analysis. Use of analytical balance and calculation of standard deviation. Calibration of pH meter and determination of pH of various acidic and basic solution.

Calibration of conductometer and determination of conductance of tap water, distilled water, conductivity water and canal water.

Calculation of dissociation constants of various acids.

Calculation of variance, mean, median, coefficient of variance of the data.

RECOMMENDED BOOKS:

1. Vogels, a text book of quantitative inorganic analysis by J. Bassett. The English language book Society and Longman.
2. Introduction to chromatography by Nasir-ud-din, Published by author.
3. Paper chromatography by Dr. Friedrich Cramer, London Macmillan and Co Ltd.
4. Thin- layer chromatography by Marini, Elsevier publisher.