



Code	Subject Title	Cr. Hrs	Semester
CHEM-308	Analytical Chemistry Lab	2	V
Year	Discipline		
3	Chemistry-I, II		

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.

2. Basic Chromatography

Separation of ink components by paper chromatography.

Separation of amino acids by thin layer chromatography.

Separation of dyes by column chromatography.

Separation of mixtures by circular paper chromatography.

RECOMMENDED BOOKS:

1. Vogel's 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.