

INORGANIC CHEMISTRY (BS-ADP 5th Semester)

Module Code:	Chem-306
Module title:	Inorganic Chemistry Lab
Name of Scheme:	BS-ADP 5th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

This course will help in understanding Aqueous Acid-base titration and Argentometric Titrations. This will assist students calculating aqueous acid base titration, estimation of oxalic acid, SO₂, SO₃ CO₂, H₂SO₄, Determination of %age purity of H₃BO₃ and Determine the %age composition of carbonate and bicarbonate in a mixture.

SYLLABUS OUTLINE:

1. Aqueous Acid-base Titrations:

- Estimation of SO₂ and SO₃ in air and discharged from an industrial process.
- Estimation of CO₂
- Estimation of oxalic acid and H₂SO₄ in a mixture.
- Determination of %age purity of H₃BO₃.
- Determine the %age composition of carbonate and bicarbonate in a mixture.

2. Argentometric Titrations:

- Mohr's Method
- Volhard's Method
- Adsorption Indicator Method (Fajan's Method)

RECOMMENDED BOOKS:

- Vogel, I. (1724). A Text-Book Of Macro And Semimicro Qualitative Inorganic Analysis. Willam Clowes And Sons Limited; London; Bxccles.
- Vogel, Arthur I. A Text-Book Of Quantitative Inorganic Analysis-Theory And Practice. Longmans, Green And Co.; London; New York; Toronto, 2013.
- Quantitative Analysis Chemistry, James S. Pritz, George H. Schenk, 1987 Alby and Becon Inc. London.
- Rabia Rehman and Haq Nawaz Bhatti, "Experimental Inorganic Chemistry", Carvan Book House Lahore in 2015.
- Haq Nawaz Bhatti and Rabia Rehman "Advanced Experimental Inorganic Chemistry" Carvan Book House Lahore in 2017.
- Mendham, John. Vogels textbook of quantitative chemical analysis. Pearson Education India, 2006.