INORGANIC CHEMISTRY (BS-ADP 8th Semester)

Module Code:	**Chem-453**
Module title:	**Inorganic Chemistry Lab - II**
Name of Scheme:	**BS-ADP 8th Semester**
Department:	**School of Chemistry**
Faculty:	**Science**
Module Type:	**Compulsory**
Module Rating:	**1 credit**

OBJECTIVES

The aim of this course is to interpret the concepts for better understanding in inorganic chemistry. This course will familiarize the students use of chromatographic techniques and inorganic compounds preparations.

SYLLABUS OUTLINE:

1. Chromatographic Techniques:

Thin layer techniques for the qualitative analysis of group II & IV metal complexes.

2. Preparations:

(i) Sodium Cobaltinitrite.
(ii) Pot. Trioxalato Aluminate.
(iii) Pot. Trioxalatoferrate.
(iv) Ammonium sulphate Nickel (II) Sulphate.
(v) Ammonium Sulphate Copper (II) Sulphate Pentahydrate.

RECOMMENDED BOOKS:

1. Pass, Geoffrey. Practical inorganic chemistry: preparations, reactions and instrumental methods. Springer Science & Business Media, 2013.
2. Vogel, I. (1724). A Text-Book of Macro And Semimicro Qualitative Inorganic Analysis. Willam Clowes And Sons Limited; London; Bxccles.
3. Vogel, Arthur I. A Text-Book Of Quantitative Inorganic Analysis-Theory And Practice. Longmans, Green And Co.; London; New York; Toronto, 2013.
4. Quantitative Analysis Chemistry, James S. Pritz, George H. Schenk, 1987 Alby and Becon Inc. London.
5. Theory and practice of chromatography by Prof. Dr. Javed Iqbal (2002).
6. Rabia Rehman and Haq Nawaz Bhatti, “Experimental Inorganic Chemistry”, Carvan Book House Lahore in 2015.
7. Haq Nawaz Bhatti and Rabia Rehman “Advanced Experimental Inorganic Chemistry” Carvan Book House Lahore in 2017.
8. Mendham, John. Vogels textbook of quantitative chemical analysis. Pearson Education India, 2006.