

Course Code	Course Name	Credits
26CH653	INORGANIC CHEMISTRY LAB	02

Objective

This lab course on Inorganic chemistry is to equip the students with analytical skills by analyzing the given inorganic salt mixture containing two common cations and two rare cations. To perform systematic qualitative analysis with the strong theoretical back ground, to impart knowledge on the quantitative analysis of different metal ions and to enable the students to prepare simple complexes.

1. Semi micro qualitative analysis of inorganic mixture containing two less-familiar cations. Pb, W, Se, Te, Mo, Bi, Cd, Cu, Mo, Ce, Th, Zr, V, Ni, Mn, Co, Ba, Ca, Sr, Li and Mg
2. Preparation of the following compounds
 - i. Potassium tris(oxalate)aluminate(III)trihydrate
 - ii. Tetraamminecopper(II) sulphate monohydrate
 - iii. Chloro penta-ammino cobalt (III) chloride
 - iv. Tris(thiourea)copper(I) sulphate
 - v. Hexaaminenickel(II)chloride
 - vi. Chromium (III) pottassiumsulfate dodecahydrate
 - vii. Barium chloride dehydrates

Students are required to perform and record at least eight experiments in the laboratory manual as part of the course requirements.