SUBJECT NO-CY49001, SUBJECT NAME- Advanced Inorganic Chemistry Laboratory

LTP- 0-0-6,CRD- 4

SYLLABUS :-

Prerequisite : Nil

Semi-micro Analysis of transition metal and rare earth metal ions in a mixture by using Spot technique.

Preparation and (Spectroscopic Characterization) of:

Layered Vanadyl Phosphate Dihydrate (Powder XRD, TGA)

Tris(acetylacetonator)managanese(III) (Mag. Susceptibility by Gouy method, and Evans method, EPR)

Tris(ethylenediamine)cobalt(III) ion & Optical Resolution (UV, specific rotation)

Chlorotribenzyltin(IV) (1H NMR)

Halocobaloxime: a B12 model compound (IR, 1H NMR)

Estimation of phosphoric acid in soft drinks

Column Chromatographic separation of Chlorophyll from Plant (UV)

Extraction of Fullerene from Soot (13C NMR, and CV)

Book:

Vogel's Qualitative Inorganic Analysis

General Chemistry Experiment by A.J. Elias

Synthesis & Techniques in Inorganic Chemistry by G.S. Girolami, T.B.

Rauchefuss, R.J. Angelici