1.	Title of the course	Inorganic Chemistry Laboratory
2.	Course number	CY512P
3.	Structure of credits	0-0-6-4
4.	Offered to	PG
5.	New course/modification to	Modification To CY5292/10
6.	To be offered by	Department of Chemistry
7.	To take effect from	July 2022
8.	Prerequisite	Nil
9.	**Course Objective(s):** To provide a hands on experience on several synthetic and structure identification techniques and to provide an exposure to different spectroscopic and electrochemical equipment used in inorganic chemistry.	
10.	**Course Content:** Synthesis of a number of compounds having different composition, colour, conductivity, electronic and magnetic properties; Estimation of the components by conventional analytical methods; Estimation of the metal ion by spectroscopy methods; Characterization of the compounds by different spectral methods, such as, FTIR, UV-Vis absorption, NMR and ESIMS; Establishing magnetic related parameters by measuring magnetic susceptibility and also by measuring the EPR spectra; Interpretation followed by identification of the compounds using data combined from all these.	
11.	**Textbook(s):** 1. Adams D M, and Raynor J B, *Advanced Practical Inorganic Chemistry*, John Wiley & Sons (1967). 2. Pass G, and Sutcliffe H, *Practical Inorganic Chemistry*, Chapman & Hall (1974).	
12.	**Reference(s):** 1. Drago R S, *Physical Methods for Chemists*, Saunders (1992). 2. Vogel I, *Text Book of Quantitative Inorganic Analysis*, ELBS Publications (1978).	