

Co-ordination chemistry (chemistry of transition elements) - Video course

COURSE OUTLINE

- Ligand Classification
- Structures and Bonding
- Spectroscopy, Reactions and Reactivity
- Metal Complexes in Living Systems
- Coordination Equilibria
- Magnetism

COURSE DETAIL

Module No.	Topic/s	Lectures
1	Introduction and definitions	2
2	Classification of Ligands	2
3	Nomenclature, Coordination Number and Stereochemistry	6
4	Structures and Symmetries	4
5	Bonding in Complexes	4
6	Color and Spectroscopy	6
7	Reactions and Reactivity	4
8	Uses in Analytical Chemistry, Industry and Medicine	4
9	Metal Complexes in Living Systems	4
10	Coordination Equilibria	2
11	Magnetism	2

References:



NP-TEL

NPTEL

<http://nptel.iitm.ac.in>

Chemistry and Biochemistry

Pre-requisites:

Introductory Inorganic Chemistry

Coordinators:

Prof. D. Ray
Department of Chemistry IIT Kharagpur

1. Inorganic Chemistry - Gary Wulfsberg
2. Inorganic Chemistry - William W. Porterfield
3. Inorganic Chemistry - Atkins, Shriver and Langford.