

Chemistry Of Transition Elements (323 CHEM

List of Topics	No. of Weeks	Contact hours
1. Transition metals, and electronic configurations and metal complexes, oxidation numbers and coordination numbers in complex, Ligand and their types and Chelates	1	3
2. Naming of the metal complexes, Types of isomers in coordination compounds	1	3
3. Stability of metal complexes	1	3
4. Theory of bonding in metal complexes, Werner's theory and The effective atomic number	2	6
5. Valence bond theory	1	3
6. Crystal field theory	2	6
7. Molecular orbital theory	3	9
8. Ligand field theory	2	6
9. Role of transition metal ions in biology system	2	6