

## Lesson Plan

**MCM DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans (Odd Semester)**

**Session – (2025-26)**

**Name of the Teachers:** Dr. Qudrat Hundal, Dr. Rishu and Dr. Archana

**Department:** Chemistry

**Class:** B.Sc III (Medical, Non-medical, MFT)      **Subject:** Inorganic Chemistry

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	24-07-2025	30-08-2025	<b>Unit I- Metal Ligand Bonding in Transition Metal Complexes</b>  Limitations of valence bond theory, an elementary idea of crystal – field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes, factors affecting the crystal – field parameters, Spectrochemical Series.  <b>Unit II- Thermodynamic and Kinetic Aspects of Metal Complexes</b>  A brief outline of thermodynamic and Kinetic stability of metal complexes	Lecture Method

2	01-09-2025	30-09-2025	<b>Unit II- Thermodynamic and Kinetic Aspects of Metal Complexes</b>  Factors affecting the stability, substitution reactions of square planar complexes  <b>Unit III- Organometallic Chemistry</b>  Definition, nomenclature and classification of organometallic compounds. Preparation, properties, bonding and applications of alkyls and aryls of Li, Al , Hg, Sn and Ti, a brief account of metal – ethylenic complexes and homogeneous hydrogenation, mononuclear carbonyls and the nature of bonding in metal carbonyls	Lecture Method
3	01-10-2025	31-10-2025	<b>Unit IV- Bioinorganic Chemistry</b>  Essential and trace elements in biological processes, Metalloporphyrins with special reference to haemoglobin and myoglobin. Biological role of alkali and alkaline earth metal ions. Nitrogen fixation	Lecture Method, assignments and Group Discussion
4	01-11-2025	10-11-2025	Revision	Lecture Method and Group Discussion
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
27 <sup>th</sup> August, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			

<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>	
24 <sup>th</sup> Sept, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>	
29 <sup>th</sup> Oct, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>	
10 <sup>th</sup> Nov, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan

**\*Any of these** – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc. Other Methods adopted by the teacher – Please write the specific teaching method