

## Lesson Plan

**MCM DAV College for Women, Sector – 36A, Chandigarh**  
**Monthly Teaching Plans (Odd Semester)**  
**Session – (2025-26)**

**Name of the Teacher:** Dr. Yesbinder Kaur

**Department:** Chemistry

**Class:** M.Sc. I  
Chemistry

**Subject -Physical**

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	01-08.2025	20.08.2025	Schrodinger wave equation to different systems, Approximation method, Variation Theorm, Perturbation Theory, Self-Consistent Field Theory.	Lecture method, Group discussion
2	21.08.2025	06.09.2025	Concept of distribution, thermodynamic probability & most probable distribution, ensemble averaging, postulates of ensemble averaging, canonical, grand canonical & micro canonical ensembles. Ordinary angular momentum, generalized angular momentum, eigenfunctions for angular momentum, eigen values of angular momentum, using ladder operators.	Lecture Method, Group discussion
3	08.09.2025	30.09.2025	Non ideal systems, excess functions for non-ideal solutions, Activity, Activity coeff, Debye huckel theory for activity coeff. electrolyte solutions,	Lecture Method, Group discussion

			determination of activity & activity coeff, ionic strength.	
4	06.10.2025	Till Exam	Application of phase rule to 3-component system, second order phase transitions.Calculation of Thermodynamic properties in terms of partition functions. Heat capacity, behaviour of solids chemical equilibria and equilibrium constant in terms of partition function, F.D. statistics, distribution law and application to metals. Bose Einsteins statistics. Distribution law & application to Helium.  Revision and Solution of previous years' question papers	Lecture Method, Group discussion
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
27 <sup>th</sup> August, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
24 <sup>th</sup> September, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
29 <sup>th</sup> October, 2025	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
10 <sup>th</sup> November, 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