Lesson Plan

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

Monthly Teaching Plans (Odd Semester)

Session: 2026-27

Name of the Teacher: Dr. Sagarika Dev, Dr. Shefali

Department: Chemistry

Class: B.Sc (1st Semester) **Subject:** Chemistry (CHM-SEC-1)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	20-07-2026	31-08-2026	**INORGANIC CHEMISTRY** 1. Calibration and use of apparatus 2. Preparation of solutions of different Molarity/Normality of titrants 3. Acid-base titrations : Determination of the % purity of caustic soda 4. Determination of the strength of boric acid	Practical
2.	01-09-2026	30-09-2026	**INORGANIC CHEMISTRY** 1. Determination of the strength of Na_2CO_3 and $NaHCO_3$in a mixture 2. Determination of alkali	Practical

			in soap solution 3. Determination of the number of molecules of water of hydration in washing soda	
3.	01-10-2026	31-10-2026	**ORGANIC CHEMISTRY** **1.** Calibration of the thermometer 2. Determination of boiling points: Ethanol 78^{o}, Cyclohexane 81.4^{o} , Toluene 110.6^{o} 6. 3. Mixed melting point determination: Urea-Cinnamic acid mixture of various compositions (1:4,1:1,4:1)	Practical
4.	01-11-2026	17-11-2026	**PHYSICAL CHEMISTRY** 1.Viscosity: a. To determine the viscosity of Brine Solution (20%), n-Butylalcohol, cyclohexane 2. To determine the coefficient of viscosity of aqueous solution of (i) a polymer, (ii) glycerol, (iii) sugar at room temperature using the Ostwald viscometer 3. Study the effect of the concentration of solute on the viscosity of sucrose solution. 4.Study the effect of the concentration of micellar	Practical

			solution on the coefficient of viscosity.	

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans	
26th August, 2026	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	
30th Sept, 2026	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	
28th Oct, 2026	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	
10th Nov, 2026	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

Lesson Plan

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

Monthly Teaching Plans (Odd Semester)

Session: 2026-27

Name of the Teacher: Dr. Qudrat Hundal, Dr. Rishu and Dr. Nisha Dawra

Department: Chemistry

Class: B. Sc II (3rd Semester) **Subject:** Chemistry (CHM-SEC-3)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	20.07.2026	31.07.2026	**Introduction to Chromatography + Paper Chromatography** Chromatography- Types: Paper, TLC, Column, Gas, HPLC (brief overview. Mobile vs Stationary phases. Calculation of R_f values Safety in chromatography labs.	Practical
2.	01.08.2026	31.08.2026	**Thin layer chromatography** • Preparation of TLC plates • Separation and identification of Ni^{2+} and Co^{3+} ions • Separation of plant pigments • Separation of analgesic drugs • Separation of dyes • Determination of R_f values and identification of organic compounds	Practical

3.	01.09.2026	30.09.2026	**Paper chromatography** • Separation of dyes • Separation of carbohydrate molecules • Separation of a mixture of food colours • Separation of plant pigments • Separation of metal ions	Practical
4.	01.10.2026	31.10.2026	**Column chromatography** • Separation of leaf pigments • Separation of dyes	Practical
5	01.11.2026	17.11.2026	**Revision of all Experiments**	Practical

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans	
26.08.2026	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	
30.09.2026	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	
28.10.2026	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	
10.11.2026	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