## **Lesson Plan**

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

Name of the Teacher/s: Dr. Swatika Sharma

**Department:** Chemistry

Class: M.Sc. II Subject:

**ENVIRONMENT CHEMISTRY** 

S. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	24-07-2025	11-08-2025	UNIT 1	Lecture method, Online
			Environment	sources
			Introduction. Ccomposition	
			of atmosphere, vertical	
			temperature, heat budget of	
			the Earth	
			atmospheric system, vertical	
			stability atmosphere.	
			Biogeochemical cycles of	
			C,N,P,S and O.	
			Biodistribution of elements.	
			Environmental Toxicology	
			Chemical solutions to	
			environmental problems,	
			biodegradability, principles	
			of decomposition ,better	
			industrial processes. Bhopal	
2	12-08-2025	16-09-2025	gas tragedy. UNIT 2	Lecture method
2	12-08-2023	10-09-2023	Industrial Pollution	Lecture method
			Cement sugar, distillery,	
			drug, paper, thermal power	
			plants, nuclear Power plants,	
			metallurgy.	
			Polymers, drugsetc.	
			Radionuclide analysis.	
			Disposal of wastes and their	
			management.and	
			Minamata disasters.	
			Soils	
			Composition, micro and	

macro nutrients, pollution- fertilizers, pesticides, plastic and metals.  3 17-09-2025 08-10-2025 UNIT 3 Hydrosphere Chemical composition of water bodies-lakes, streams, rivers and wet lands etc. Hydrological cycle. Aquatic pollution — inorganic, organic, pesticide, agricultural, industrial and Sewage, detergents, oil spills and oil pollutants. Water Quality parameters —Dissolved oxygen, biochemical oxygen demand,
and metals.  17-09-2025 08-10-2025 UNIT 3 Hydrosphere Chemical composition of water bodies-lakes, streams, rivers and wet lands etc. Hydrological cycle. Aquatic pollution — inorganic, organic, pesticide, agricultural, industrial and Sewage, detergents, oil spills and oil pollutants. Water Quality parameters —Dissolved oxygen, biochemical oxygen demand,
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pollutants. Water Quality parameters –Dissolved oxygen, biochemical oxygen demand,
parameters –Dissolved oxygen, biochemical oxygen demand,
oxygen, biochemical oxygen demand,
oxygen, biochemical oxygen demand,
biochemical oxygen demand,
solids, metals, content of
Chloride, sulphate,
phosphate, nitrate and
micro-organisms. Water
quality Standards. Analytical
methods for measuring
BOD,DO,COD,F,Oils,metals
(As,Cd,Cr, Hg,Pb,Se etc.),
residual chloride and
chlorine demand.
Purification and treatment of
water.
4 09-10-2025 Till exam UNIT-4 Lecture Method, Online
Atmosphere Sources
Chemical composition of
atmosphere – particles, ions
and redicals and their
formation. Chemical
and photochemical reactions
in atmosphere, smog
formation, oxides of
Chlorofluorohydrocarbons,
Ozone depletion, Global
warming. Green house
effect, acid rain, air
pollution controls and their
chemistry. Analytical
methods for measuring air
pollutants.
Continuous monitoring
instruments

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per				
lesson plans				
27 <sup>th</sup> August,	The teachers have completed the scheduled chapters and topics as shown in the			
2025	lesson plan			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per				
lesson plans				
24 <sup>th</sup> September,	The teachers have completed the scheduled chapters and topics as shown in the			
2025	lesson plan			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per				
lesson plans				
29 <sup>th</sup> October,	The teachers have completed the scheduled chapters and topics as shown in the			
2025	lesson plan			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per				
lesson plans				
10th	The teachers have completed the scheduled chapters and topics as shown in the			
November,	lesson plan			
2025				

<sup>\*</sup>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