Sample Format (Lesson Plan)

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester) Session – (2021-22)

Name of the Teacher/s:Dr. Renu

Department: Chemistry

Class: BSc 1_(semester-1) Subject: Organic Chemistry

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	1st -09-2021	24 th -09-2021	Structure and bonding	Lecture
2	25 st -09-2021	18 th -09-2021	Mechanism of organic reactions	Lecture
3	19 th -10-2021	18 th -11-2021	Electro-magnetic spectrum; absorption spectrum	Lecture
4	19 st -11-2021	7 th -12-2021	Stereo-chemistry of organic compounds 1	Lecture
5	8 st -12-2021	Till exams	Stereo-chemistry of organic compounds 2	Lecture
Departmo	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
5 th October, 2021	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			
Departme	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
9 rd November, 2021	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			
	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
7 th December, 2021	The teachers have completed the scheduled chapters and topics as shown in the lesson plan			
Departme	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans

12 th	The teachers have completed the scheduled chapters and topics as shown in the lesson			
December,	plan			
2021				
Departme	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				

^{*}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 – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – 2021-22

Name of the Teacher: Dr. Renu

Department: P.G. Department of Chemistry

Class: B.Sc I Subject: Organic Chemistry

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To	1	<u> </u>
1	3 -02-2022	2 -03-2022	Unit I Alkenes and	Lecture method
			Cycloalkenes:	
			Nomenclature of alkenes,	
			methods of formation,	
			mechanisms of	
			dehydration of alcohols	
			and dehydrohalogenation	
			of alkyl halides,	
			regioselectivity in alcohol	
			dehydration. The Saytzeff	
			rule, Hofmann elimination,	
			physical properties and	
			relative stabilities of	
			alkenes. Chemical	
			reactions of alkenes –	
			mechanisms involved in	
			hydrogenation,	
			electrophilic and free	
			radical additions,	
			Markownikiff's rule,	
			hydroboration-oxidation,	
			oxymercuration-reduction.	
			Epoxidation, ozonolysis,	
			hydration, hydroxylation	
			and oxidation with KMnO ₄	
2	3-03-2022	31-03-2022	Unit I Alkenes and	Lecture method
			Cycloalkenes:	
			Polymerization of alkenes.	
			Substitution at the allylic	
			and vinylic positions of	
			alkenes. Industrial	

			applications of ethylene	
			and propene.	
			Unit II Dienes and	
			Alkynes:	
			Methods of formation,	
			conformation and	
			Chemical reactions of	
			cycloalkenes.	
			Nomenclature and	
			classification of dienes:	
			isolated, conjugated and	
			cumulated dienes.	
			Structure of	
			allenes and butadiene,	
			methods of formation,	
			polymerization. Chemical	
			reactions -1 , 2 and 1,4	
			addition, Diels-Alder	
			reaction.	
			Nomenclature, structure	
			and bonding in alkynes.	
			Methods of formation.	
			Chemical reactions of	
			alkynes, acidity of alkynes.	
			Mechanism of	
			electrophilic and	
			nucleophilic addition	
			reactions, hydroboration-	
			oxidation, metal-ammonia	
			reductions, oxidation and	
			polymerization.	
3	1 -04-2022	19-04-2022	Unit III Arenes and	Lecture method
			Aromaticity:	
			Nomenclature of benzene	
			derivatives. The aryl	
			group. Aromatic nucleus	
			and side chain. Structure	
			of benzene : molecular	
			formula and Kekule	
			structure. Stability and	
			carbon-carbon bond	
			lengths of benzene,	
			resonance structure, MO	
			picture. Aromaticity: The	
			Huckel Rule, aromatic	
			ions. Aromatic	
			electrophilic substitution –	
			general pattern of the	
			mechanism, role of σ-and	
			π complexes. Mechanism	
			•	·

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			of nitration, halogenation,	
			sulphonation, mercuration	
			and Friedel-Crafts	
			reaction. Energy profile	
			diagrams. Activating and	
			deactivating substituents,	
			orientation and ortho/para	
			ratio. Side chain reactions	
			of benzene derivatives.	
			Birch reduction. Methods	
			of formation and chemical	
			reactions of alkyl	
			benzenes, alkynyl	
			benzenes and biphenyl.	
4	20-04-2022	Till exams	Unit IV Alkyl and Aryl	Lecture method
			Halides: Nomenclature	
			and classes of alkyl	
			halides, methods of	
			formation, chemical	
			reactions. Mechanisms of	
			nucleophilic substitution	
			reactions of alkyl halides,	
			SN ² and SN ¹ reactions with	
			energy profile diagrams.	
			Polyhalogen compounds:	
			chloroform, carbon	
			tetrachloride. Methods of	
			formation of aryl halides,	
			nuclear and side chain	
			reactions. The addition-	
			elimination and the	
			elimination-addition	
			mechanisms of	
			nucleophilic aromatic	
			substitution reactions.	
			Relative reactivities of	
			alkyl halides vs. allyl,	
			vinyl and aryl halides.	
Departme	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
16 th	The teachers l	nave completed	the scheduled chapters and top	oics as shown in the lesson
February,		1	plan	
2022			r	
	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
23 rd March,	The teachers ha	ave completed th	ne scheduled chapters and topi	cs as shown in the lesson
2022	The teachers he	o completed th	plan	25 25 5115 111 111 1110 1055011
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Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				

18 th April,	The teachers have completed the scheduled chapters and topics as shown in the lesson			
2022	plan			
Departme	ental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans			
5 th May,	The teachers have completed the scheduled chapters and topics as shown in the lesson			
2022	plan			
Departme	ental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans			
Departme	ental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans			

^{*}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