

Government PG College, Ambala Cantt.Subject: **Org.****Chem****Lesson Plan Session 2019-20 (Even Semester)**Class: **B.Sc. I yr N. Med.**Name: **Dr. Deepak Sharma**Semester: **II**

Week/ Working Days	Details	Remarks
Jan 01 - Jan 04, 2020 02 Days	Nomenclature of alkenes, mechanisms of dehydration of alcohols Mechanisms of dehydrohalogenation of alkyl halide The Saytzeff rule, Hofmann elimination	
Jan 06 - Jan 11, 2020 03 Days	Physical properties and relative stabilities of alkenes. Chemical reactions of alkenes: mechanisms involved in Hydrogenation, electrophilic and free radical additions	
Jan 13 - Jan 18, 2020 03 Days	Markownikoff's rule, hydroboration-oxidation, oxymercuration reduction ozonolysis, hydration, hydroxylation and oxidation with KMnO_4 . Nomenclature and classification of dienes: isolated, conjugated and Cumulated dienes. Structure of butadiene.	
Jan 20 - Jan 25, 2020 03 Days	Chemical reactions: 1,2 and 1,4 additions (Electrophilic & free radical mechanism) Nomenclature, structure and bonding in alkynes. Methods of formation	
Jan 27 - Feb 01, 2020 02 Days	Chemical reactions of alkynes, acidity of alkynes	
Feb 03 - Feb 08, 2020 03 Days	Mechanism of electrophilic and nucleophilic addition reactions Hydroboration-oxidation of alkynes. Nomenclature of benzene derivatives : Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions,	
Feb 10 - Feb 15, 2020 03 Days	Class Test annulenes up to 10 carbon atoms, aromatic, anti-aromatic and non-aromatic compounds. Aromatic electrophilic substitution general pattern of the mechanism, mechanism of nitration, halogenation,	
Feb 17 - Feb 22, 2020 02 Days	Mechanism of sulphonation and Friedel-Crafts reaction. Energy profile diagrams. Activating, deactivating substituent and orientation.	
Feb 24	Nomenclature and classes of alkyl halides	

- Feb 29, 2020 03 Days	methods of formation Chemical reactions.	
March 02 - March 07, 2020 03 Days	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides SN1 Reactions with energy profile diagrams.	
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March 09 - March 14, 2020 0 Days	Vacations	
March 16 - March 21, 2020 03 Days	chemical reactions	
March 23 - March 28, 2020 03 Days	chemical reactions	
March 30 - April 04, 2020 02 Days	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides	
April 06 - April 11, 2020 03 Days	SN2 reactions with energy profile diagrams. The addition elimination mechanisms of nucleophilic aromatic substitution reactions.	
April 13 - April 18, 2020 03 Days	The elimination-addition mechanisms of nucleophilic aromatic substitution reactions. Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.	

April 20 - April 25, 2020 03Days	Revision	
April 27 - April 30, 2020 01 Days	Revision	
May 01, 2020	Semester Final Examinations	

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