



Arts, Science and Commerce College, Indapur, Dist. - Pune

TEACHING AND EVALUATION PLAN

Name of the teacher: Prof Bhore J.B. Year: 2018-2019 Semester: I

Subject: Organic Chemistry
Part I: Teaching Plan CHO-102 Class: F.Y.B.Sc.

1	: Teaching		V. 14.00	Name of the second		aluation	luation of Plan				
Sr.	VI - Vicinity Co., Co., Co., Co., Co., Co., Co., Co.,	3	4	5	6	7	8	9	10		
No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks		
1	July2019	3&4	11	04	Fundamentals of Organic Chemistry	4	Fundamentals of Organic Chemistry	Nil	-		
2	Aug 2019		11	04	Reactive Intermediates: Carbocations, Carbanions and free radicals. Strength of organic acids and bases:	4	Reactive Intermediates: Carbocations, Carbanions and free radicals. Strength of organic acids and bases:	Nil			
3	Aug 2019	3&4	11	04	Conformations with respect to ethane, butane and cyclohexane.	4	Conformations with respect to ethane, butane and cyclohexane.	Nil			
	Sept 2019	1&2	11	04	Aliphatic Hydrocarbons Functional group	4	Aliphatic Hydrocarbons Functional group	Nil			
	Sept 2019	3&4	1T	04	Alkenes: Carbons) Preparation: Elimination reactions: Dehydration of alkenes	3	Alkenes: Carbons) <i>Preparation:</i> Elimination reactions: Dehydration of alkenes	ı Nil			
	Oct.2019	1&2	11	04	(alk. KMnO4) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, oxymecuration-demercuration, Hydroboration-oxidation.	4	(alk. KMnO4) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, oxymecuration-demercuration, Hydroboration-oxidation.	Nii	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Oct. 2019	3&4	11	04	Alkynes-	4	Alkynes:	Nil			
	Nov.2019	1&2	11	04	Reactions: formation of metal acetylides, addition of bromine and alkaline KMnO4, ozonolysis and oxidation with hot alk. KMnO4.	1 2	Reactions: formation of metal acetylides, addition of bromine at alkaline KMnO4, ozonolysis and oxidation with hot alk. KMnO4.				

Sign. of Teacher

Sign. of Hembot Department Chemistry
Arts, Science & Germerce
College, Indapue, Dist. Pune

Sign. of Faculty In-charge

Sign. of the Principal





s, Science and Commerce College, Indapur, Dist. - Punc

TEACHING AND EVALUATION PLAN

Name of the teacher: Prof Bhore J.B.					Semester: II Year: 2018-2019						
Subject: Organic Chemistry					CHO-333 Class: T.Y.B.Sc.						
	I : Teaching				Part II : Evaluation of Plan						
1	2	3	4	5	6	7	8	9	10		
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks		
1	July2018	3&4	7	04	Strength of organic acids and bases (03) Introduction pka, origin of acidity, influence of solvent, simple aliphatic saturated and unsaturated acids,	04	Strength of organic acids and bases (03) Introduction pka, origin of acidity, influence of solvent, simple aliphatic saturated and unsaturated acids,	Nil	-		
1	Aug 2018	1&2	11	08	2. Stereochemistry of disubstituted cyclohexane 1,1-alkyl disubstituted cyclohexane; Dimethyl cyclohexane 1,2; 1,3 and 1,4.Geometrical isomerism, Optical isomerism, stability of conformation, energy 3. Nucleophilic substitution at aliphatic Carbon SN1 reaction: Kinetics, mechanism and stereochemistry SN2 reaction: Kinetics, mechanism & stereochemistry (inversion).	08	2. Stereochemistry of disubstituted cyclohexane 1,1-alkyl disubstituted cyclohexane; Dimethyl cyclohexane 1,2; 1,3 and 1,4.Geometrical isomerism, Optical isomerism, stability of conformation, energy 3. Nucleophilic substitution at aliphatic Carbon SN1 reaction: Kinetics, mechanism and stereochemistry SN2 reaction: Kinetics, mechanism & stereochemistry (inversion).	Nil			
	Aug 2018	3&4	11	08	Ozonolysis (formation of aldehydes & ketones) addition of Hydrogencyanide, alcohols, thiols, water, ammonia derivatives, Cannizzaro and Reformaski reactions	08	Ozonolysis (formation of aldehydes & ketones) addition of Hydrogencyanide, alcohols, thiols, water, ammonia derivatives, Cannizzaro and Reformaski reactions	Nil			
7 T -	Sept	1&2		00	5. Elimination Reactions (06) Introduction; 1,1; 1,2 elimination.E1, E2 and E1cB mechanism with evidences, Hoffmann andSaytzeff's elimination, reactivity effect of structure, attacking and leaving groups.	08	5. Elimination Reactions (06) Introduction; 1,1: 1,2 elimination,E1, E2 and E1cB mechanism with evidences, Hoffmann andSaytzeff's elimination, reactivity effect of structure, attacking and leaving groups.	Nil			
	2018 Sept 2018	3&4	11	08	6. Aromatic Electrophilic and Nucleophilic substitution reactions (10) Introduction, arenium ion mechanism, Effect of substituent group (Orientation, o/p directing andmeta directing groups activating and deactivating groups)	08	6. Aromatic Electrophilic and Nucleophilic substitution reactions (10) Introduction, arenium ion mechanism, Effect of substituent group (Orientation, o/p directing andmeta directing groups activating and deactivating groups)	Nil			
	Oct.2018	1&2	11	08	Mechanism of – Nitration, Sulfonation, Haloganation, Fridel-Crafts reactions, Diazo Couplingreactions, Ipso- substitution. Addition-elimination (SNAr),	08	Mechanism of – Nitration, Sulfonation, Haloganation, Fridel-Crafts reactions, Diazo Couplingreactions, Ipso- substitution.Addition-elimination (SNAr),	Nil			
2		3&4	11	08	SN1, Elimination-addition (Benzyne)	08	SN1, Elimination-addition (Benzyne)	Nil			
A CAMPAGE	Nov. 1018	1&2	11	04	SNR1reactions, reactivity	04	SNR1reactions, reactivity	Nil	1.		

Sign. of Teacher

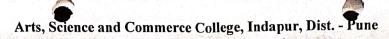
Sign. of Head of Department of Chemistry

Sign. of Head of Department of Commerce Sign. of Faculty In-charge

College, Indapus, Dist. Pune

Sign. of the Principal





TEACHING AND EVALUATION PLAN

Year: 2018-2019 Name of the teacher: Prof Bhore J.B.

Semester: II

Part	: Teachin	ng Plan			Part II : E	valuation	n of Plan		
	2	3	4	5	6	7		9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Dec. 201 9	3&4	7	02	Aromatic hydrocarbons Electrophilic substitution	02	Aromatic hydrocarbons Electrophilic substitution:	Nil	-
1	Jan. 2019	1&2	11	04	Alkyl and Aryl Halides Aryl Halides Preparation: (Chloro, bromo and iodo-benzene case): from phenol	4	Alkyl and Aryl Halides Aryl Halides Preparation: (Chloro, bromo and iodo-benzene case): from phenol	Nil	_
2	Jan. 2019	3&4	11	04	Sandmeyer & Gattermann reactions.	4	Sandmeyer & Gattermann reactions.	Nil	
3	Feb. 2019	1&2	11	04	Alcohols, Phenols and Ethers Alcohols: Preparation. Reactions:	4	Alcohols: Preparation. Reactions:	Nil	-
.,44:	Feb. 2019	3&4	11	04	Phenols: Preparation: Reactions: Electrophilic substitution:	4	Phenols: Preparation: Reactions: Electrophilic substitution:	Nil	
	March	1&2	11	04	Ethers (aliphatic and aromatic): Cleavage of ethers with HI. Aldehydes and ketones (aliphatic and aromatic): (Formaldehye, acetaldehyde, acetone and benzaldehyde)	3	Ethers (aliphatic and aromatic): Cleavage of ethers with HI. Aldehydes and ketones (aliphatic and aromatic): (Formaldehye, acetaldehyde, acetone and benzaldehyde)	Nil	
	March .2019	3&4	11	04	Preparation: Aldol Condensation, Cannizzaro's reaction,	4	Preparation: Aldol Condensation, Cannizzaro's reaction,	Nil	
S (\$	April 2019	1&2		04	Wittig reaction, Benzoin condensation. Clemenson reduction and Wolff Kishner reduction.	4	Wittig reaction, Benzoin condensation. Clemenson reduction and Wolff Kishner reduction.	Nil	
	April .2019	3	6	02	Meerwein-Pondorff Verley reduction	i 2	Meerwein-Pondorff Verley reduction	n Nil	2

Sign. of Teacher

Sign. of Head of Department
Head
Department

Sign. of Faculty In-charge

Sign. of the Principal

Department & Chemistry . Arts, Science & Tomerce





, Science and Commerce College, Indapur, Dist. - Pune

TEACHING AND EVALUATION PLAN

	of the teac				Semester: II		Year: 2018-2019		
	ect: Organic : Teaching		y		CHO-343		Class: T.Y.B.Sc.		
1	2	Pian 3	T .	Г -	Part II : Evaluation of Plan				
Sr.	Month		4	5	6	7	8	9	10
No.		Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Dec. 2018	3&4	7	04	Carbanions and their reactions Introduction, Formation and stability of Carbanion. Reactions involving carbanions	03	Carbanions and their reactions Introduction, Formation and stability of Carbanion. Reactions involving carbanions	Nil	-
1	Jan. 2019	1&2	11	08	mechanisms: applications of Malonic ester, Acetoacetic ester and Wittig reagent. 2. Retrosynthetic analysis and applications Introduction,	03	mechanisms: applications of Malonic ester, Acetoacetic ester and Wittig reagent. 2. Retrosynthetic analysis and applications Introduction,	Nil	-
2	Jan. 2019	3&4	11	08	3. Rearrangement reactions Introduction, Mechanism of rearrangement reaction involving carbocation, 4. Spectroscopic methods in structure determination of Organic compounds Types of spectroscopy and advantages of spectroscopic methods. A) Ultra Violet Spectroscopy	08	3. Rearrangement reactions Introduction, Mechanism of rearrangement reaction involving carbocation, 4. Spectroscopic methods in structure determination of Organic compounds Types of spectroscopy and advantages of spectroscopic methods. A) Ultra Violet Spectroscopy	Nil	
	Feb. 2019	1&2	11	08	B) Infra red Spectroscopy Introduction, Principle of IR Spectroscopy, Fundamental modes of vibrations (3N-6, 3N-absorption of functional groups:	08	B) Infra red Spectroscopy Introduction, Principle of IR Spectroscopy, Fundamental modes of vibrations (3N-6, 3N- absorption of functional groups:	Nil	
	Feb. 2019	3&4	11	08	Factors affecting on IR absorption: Inductive effect, . PMR Spectroscopy Introduction,	08	Factors affecting on IR absorption: Inductive effect, . PMR Spectroscopy Introduction,	Nil	
	March 2019	1&2	11	08	Measurement of chemical shift, delta and Tau-scales. TMS as reference and its advantages, peak area, integration, spin-spin coupling, coupling constants, J-value	08	Measurement of chemical shift, delta and Tau-scales. TMS as reference and its advantages, peak area, integration, spin-spin coupling, coupling constants, J-value	Nil	
	March .2019 April	3&4	11	08	Problems based on U.V., I.R. and PMR	08	Problems based on U.V., I.R. and PMR	Nil	-
	2019	1&2	11	08	Problems based on U.V., I.R. and PMR	08	Problems based on U.V., I.R. and PMR	Nil	1.00

Sign. of Teacher

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Sign. of Faculty In-charge

Sign. of the Principal