

SVRK GOVERNMENT DEGREE COLLEGE, NIDAVOLE
TABLE - A - CURRICULAR PLAN - LECTURER WISE

NAME OF THE LECTURER
DEPARTMENT

: Smt. M. USHA RANI
: CHEMISTRY

CLASS: I B.SC

YEAR: 2021-2022

SEMESTER: 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT /VALUE ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIV E DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIV E DATE	

[illegible]

1. *Phylogenetic relationships of*
all species and
cycles with species
in day to day
life

1800 *Journal of Management*

the government, through its various ministry is effectively a centralized agency of power (centralization, rather than decentralization) if the state, provinces and various (various) ministries are

1990s

Experiments of G. V. Lushakov and others in addition, showed that with therapy, E. coli bacteria concentrations with respect to fecal flora, in patients with various degrees of inflammation of the colon are reduced.

1. *10/10/10*

UNIT II. Carbon-Carbon in Bonds/Alkenes and Alkynes

Several methods of preparation, physical and chemical properties, mechanism of E₁, E₂, E₁c₁ reactions, Saytzeff and Hofmann eliminations, electrophilic addition, substitution reactions (Markovnikov/Anti Markovnikov addition) with suitable examples

Industrial applications of alkenes and alkynes like acetylene torch.

1 minute		3 hrs
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1 Hr
Aspirin
Morphine

1. Begin with meditation, visualization, N.L.G. and
affirmations. Desire for wisdom, higher education

Lecture 4, 11/13

reactions of alkynes, azides, electrophilic and nucleophilic additions, hydration to form carboxyl compounds, Alkylation of terminal alkynes

Lecture 4.1113

Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes) Recapitulation of Basics of Organic Chemistry General methods of preparation of alkanes- Wurtz and Wurtz-Fittig reaction, Corey House synthesis, physical and chemical properties of alkanes, Isomerism and its effect on properties, Free radical substitutions;									
1 st week	4Hrs	Halogenations, concept of relative reactivity v/s selectivity. Conformational analysis of alkanes (Conformations, relative stability and energy diagrams of Ethane, Propane and butane) General molecular	Importance of alkanes and cycloalkanes in day today life	Lecture	4 Hrs				
2 nd week	4Hrs	formulae of cycloalkanes and relative stability, Baeyer strain theory, Cyclohexane conformations with energy diagram, Conformations of mono substituted cyclohexane		Lecture	Hrs				
3 rd week	4Hrs	UNIT II: Carbon-Carbon pi Bonds(Alkenes and Alkynes) General methods of preparation, physical and chemical properties. Mechanism of E1, E2, E1 cb reactions, Saytzeff and Hofmann eliminations, Electrophilic Additions ,mechanism (Markovnikov/Ani Markovnikov addition) with suitable examples	Industrial applications of alkenes and alkynes like acetylene torch.	Lecture	4 Hrs				
4 th week	4Hrs	„ syn and anti-addition; addition of H ₂ , X ₂ , HX. Oxymercuration, demercuration, hydroboration-oxidation, ozonolysis, hydroxylation, Diels Alder reaction, 1,2- and 1,4-addition reactions in conjugated dienes		Lecture	3 Hrs	Assign ment	1 Hr		
1 st week	4Hrs	Reactions of alkynes: acidity, electrophilic and nucleophilic additions, hydration to form carbonyl compounds, Alkylation of terminal alkynes.		Lecture	4 Hrs				
2 nd week	4Hrs			Lecture	4 Hrs				

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4th week	4Hrs	3. HSAB Pearson's concept, HSAB principle & its importance, bonding in Hard-Hard and Soft-Soft combinations.		Lecture	3 Hrs			Quiz	1Hr				
1st week	4Hrs	<u>UNIT V: Stereochemistry of carbon compounds</u> Molecular representations- Wedge, Fischer, Newman and Saw-Horse formulae. Optical isomerism:	Chirality for various organic compounds.	Lecture	4 Hrs								
2nd week	4Hrs	Optical activity- wave nature of light, plane polarised light, optical rotation and specific rotation. Chiral molecules- definition and criteria (Symmetry elements)- Definition of enantiomers and diastereomers		Lecture	3Hrs			Assign ment	1Hr				
3rd week	4Hrs	Explanation of optical isomerism with examples- Glyceraldehyde, Lactic acid, Alanine, Tartaric acid, 2,3-dibromopentane. D,L, R,S and E,Z-configuration with examples		Lecture	4 Hrs								
4th week	4Hrs	Revision.		Lecture	4 Hrs								

H. Chelvi
SIGNATURE OF THE LECTURER

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SIGNATURE OF THE HEAD OF THE
DEPARTMENT

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