	Lesson Plan			
Name of College: 4 C Badli, Shajjar Academic Sessio 2021-22 Name of Asstt./Ass. Prof.: Dr. Ravindur Sirgh Class: B.Sc 2nd Sem Name of Subject: organic Chemistry				
Name of Subject: Ogane County				
21 March 2022 to -2	20June2022 Month (March -April)			
27 March	SUNDAY stanisms of dehydration of alcohols			
Week 2 (28Mar-2April)	SUNDAY Alkenes Nomenclatu re of alkenes, , mechanisms of dehydration of alcohols			
3 April	SUNDAY dehydrohalogenation of alkyl halides, The Saytzeff rule, Hofmann elimination physical p roperties dehydrohalogenation of alkyl halides, The Saytzeff rule, Hofmann elimination physical p roperties			
Week 3	dehydrohalogenation of alkyl halides, The Sayuers and reactions of alkenes			
4April-9April)	and relative stabilities of aixelies. Chemicar			
0 April	SUNDAY and free radical additions. Markownikoff's rule,			
Week 4 11April-16April)	SUNDAY . mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration—oxidation, oxymercurationreduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO4			
7 th April	SUNDAY			
Week 5 18April-23 April)	SUNDAY .Arenes and Aromaticity Nomenclatu re of benzene deriva tives:. Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms			
	Month (April- May)			
24 April	SUNDAY A compatie electrophilic substitution general			
Week 6 25April-30April	aromatic, anti - aromatic and non – aromatic compounds. Aromatic electrophilic substitution general pattern of the mechanism, mechanism of nitration, halogenation, sulphonation, a Friedel-Craft reaction. Energy profile diagrams. Activating, deactivating substituents and orientation.			
N.	CUNDAV			
1May Week 7 2May-7May)	Dienes and Alkynes Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene,. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism), Diels-Alder reaction,			
8 May	SUNDAY			
Week 8 9May- 14May	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 of alkyne			
15May	SUNDAY			
Week 9 16May-21May	Alkyl and Aryl Halides Nomenclatu re and classes of alkyl halides, methods of formation, chemica reactions. Mechanisms			
	Month (May-June)			
22 May	SUNDAY			
Week 10 23 May-28May	stereochemistry of nucleophilic substitution reactions of alkyl halides, SN2 and SN1reactions with energy profile diagrams. Methods of formation and reactions of aryl halides,			

Agine of Garagette Greatering Chromothy		
29th May	SUNDAY	
Week 11	The additionelimination and the elimination-addition mechanisms of nucleophilic aromatic	
30May-4 June	substitution reactions	
5June	SUNDAY	
Week 12	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides	
6June – 11 June		
12June	SUNDAY	
Week-13	Revision and Test	
13 June- 18 June		
19June	SUNDAY	
Month (June))		
Week 14	Assignment	

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Name of College: Covt C Academic Session 2021-22 Name of Asstt./Ass. Prof.: Class: B.Sc. 4th Alm, Name of Subject: Physic Dr. Ravinder Singh

SUNDAY	LL IVIDY
	22 May 2 HVIdy
Variation of G and A with F, V and I.	16May-21May
SUNDAY	ISMay
advantage over entropy change.	
quantities, A & G as criteria for the most required equilibrium and spontaneity, then	Sividy-14ividy
Gibbs function (G) and Heimholtz function (A) as thermodynamic	Week /
SUNDAY	8 May
functions;	(2May-7May)
evaluation of absolute entropy from heat capacity data. Gibbs and Helmholtz	Week 6
	1May
Month (April- May)	
entropy	
residual	
Third law of thermodynamics: Nernst heat theorem, statement of concept of	25April-30April
Thermodynamics-IV	Week 5
SUNDAY	24th April
and mixing of gases.	(18April-23April)
. Entropy change in ideal gases	Week 4
SUNDAY	17 th April
entropy as a criteria of spontaneity and equilibrium.	(11April-16April)
entropy as a function of P & T, entropy change in physical change,	Week 3
SUNDAY	10 April
V&T,	
temperature. Concept of entropy – entropy as a state function, entropy as a function	(4April-9April)
Thormodynamics scale of	3 April
SINDAY	۵ ١
	April
Second law of thermodynamics, need for the law, different statements of the law,	Week 1 01st April – 02th
Thermodynamics-III	
	U st April 2022 to -2/ June 2022
OTH LINE COOK	



Lesson Plan

Academic Session 2021-2 Name of Asstt./Ass. Prof.: Class: B.Sc. Name of Subject:

Assignment 1,2,3	Week 14 27 th June
Month (June))	
SUNDAY	26 th June
potentiometric titration (acid- base and redox). Determination of pH using Hydrogen electrode, Quinhydrone electrode and glass electrode by potentiometric methods.	Week 13 20th June – 25th June
SUNDAY	19June
Concentration cells with and without transference, liquid junction potential, application of EMF measurement	13 June- 18 June
Electrochemistry-IV	Week 12
SUNDAY	12June
conventions, electrochemical se ries and its applications.	
Standard Hydrogen electrode, reference electrodes, standard electrodes potential, sign	
Electrodereactions, Nernst equations, derivation of cell EMF and single electrode potential.	Week 11 6June – 11June
SUNDAY	5June
quantities of cell reaction (G, H & K). Types of reversible electrodes – metal-metal ion gas electrode, metal –insoluble salt-anion and redox electrodes.	30May-4 June
SUNDAY Calculation of thermodynamic	29" May
Electrochemistry-III Electrolytic and Galvanic cells – reversible & Irreversible cells, conventional representation of electrochemical cells. EMF of cell and its measurement, Wes ton standard cell, activity and activity coefficients.	23 May-28May
	Works



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Academic Session 2021-22

Name of Asstt./Ass. Prof — Declass: - BSc & H Sem.

Name of Subject: - ogawc

SUNDAY	15May
Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution thophene	Week 8 9May- 14May
SUNDAY	8 May
Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution furan	Week 7 (2May-7May)
SUNDAY	1May
Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution pyrrole,	week 6 25April-30April
SUNDAY	24 April
Introduction: Molecular orbital p icture and aromatic characteristics of pyridine	(18April-23April)
SONDAY	
characteristics of thiophene	(11April-16April)
SUNDAY	No. April
Introduction: Molecular orbital p icture and aromatic characteristics of furan,	Week 3 (4April -9April)
SUNDAY	3 April
Heterocyclic Compounds-I Introduction: Molecular orbital p icture and aromatic characteristics of pyrrole,.	Week 2 (28Mar-2April)



eek 9 5May- 1May	Mechanism of nucleophilic substitution reactions in pyridine derivative
2 May	SUNDAY
Neek 10 23 May-28May	Comparison of basicity of pyridine, piperidine and pyrrole
29 ^{tn} May	SUNDAY
Week 11 30May-4 June 5June	Heterocyclic Compounds-II Introduction to condensed five and six- membered heterocycles Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline SUNDAY
Week 12 6June – 11 June	Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, . Organosulphur Compounds Nomenclature, structural features
12June	SUNDAY
Week 13 13 June– 18 June	Prepration and reactions of indole, quinoline and isoquinoline with special reference to Skraup synthesis Prepration and reactions of indole, quinoline and isoquinoline with special reference to, Skraup synthesis
19June	SUNDAY