Koyana Education Society's Balasaheb Desai College,Patan Department of Chemistry

Monthly Teaching Plan-Year-2023-2024

January – 2024 Semester – IV & VI

Name of the Teacher- Mr. Shivhar Balaji Ambegave

Dates Unit Sub unit B.ScII Unit 1: Carboxylic Acids and Their O3/01/2024 Unit 1: Carboxylic Acids and Their Dates 1.4 Di carboxylic acids: a) Introduction b) Method of formation of succinic acid from	Teaching Method Aids
B.ScII Unit 1: Carboxylic Acids and Their Unit 1: Carboxylic Acids and Their Discrepancy and Their by Method of formation of succinic acid from	
Unit 1: Carboxylic Acids and Their 1.4 Di carboxylic acids: a) Introduction b) Method of formation of succinic acid from	Alds
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1 ()3/()1/2()24	
D 4 4 11 11 11 11 11	Lecture
Derivatives ethylene dibromide, maleic acid	2000010
c) Chemical Reactions: Action of heat, Action	
of NaHCO3, C2H5OH in presence of acid.	
d) Method of formation Phthalic acid from o-	
xylene and Naphthalene	
e) Chemical Reactions of Phthalic acid:	Lecture
Action of heat, reaction with sodalime,	
ammonia.	
1.5 Carboxylic acid derivatives:	
a) Introduction	T4
b) Acid halide derivative: Acetyl chloride: i)	Lecture
Synthesis from acid, by action with PCl3 and SOCl2.	
ii) Reaction with water, alcohol (Mechanism of esterification is expected) and ammonia.	Lecture
c) Acid anhydride derivative:	
i) Synthesis of acetic anhydride by	
31/01/2024 dehydration of acetic acid.	Lecture
ii) Reactions with water, alcohol and	Using ICT
ammonia.	
B.ScIII	
04/01/2024 Unit 1. Reagents and Reactions in II] Name Reactions	Lecture
Organic Synthesis Statement, General Reaction, Mechanism and	
Synthetic applications of following	
reactions	
Diels -Alder reaction.	Lecture
18/01/2024 Meerwein –Pondorff-Verley reduction.	Lecture
Hofmann rearrangement	
25/01/2024 Wittig reaction.	Lecture
Wagner- Meerwein rearrangement. Baeyer	
Villiger oxidation	
M.ScI	
02/01/2024 UNIT-II: Chloranil,	Lecture

05/01/2024		hydrogen peroxide	Lecture
09/01/2024		Swern oxidation. PCC (Corey's reagent),	Lecture
12/01/2024		PDC (Cornforth reagent)	Lecture
16/01/2024		Baeyer-Villiger oxidation.	Lecture
19/01/2024	UNIT-III: A) Reductions		Lecture
23/01/2024	71) Reductions	Study of following reductions- Catalytic hydrogenation using homogeneous and	Lecture
30/01/2024		heterogeneous catalysts.	Lecture
M.ScII			1
02/01/2024	UNIT-II: Advanced Liquid Chromatographic Techniques	Liquid Chromatography-Mass Spectrometry interface	Lecture
08/01/2024	on on one of the original of t	instrumentation, advantages and applications.	Lecture
09/01/2024		Practical applications and examples in analytical chemistry and research.	Lecture
15/01/2024	UNIT – II: Food and Food Additive Analysis	Food flavors, food colors,	Lecture
16/01/2024	A) Food Analysis	food preservatives	Lecture
22/01/2024		analysis of milk and milk products, adulterants in milk and their identification, analysis of honey, jam and their major component	Lecture
23/01/2024		Practical applications and examples in analytical chemistry and research.	Lecture
29/01/2024	B) Food Additive Analysis	Additives in animal food stuff:	Lecture
30/01/2024		Antibiotics: penicillin, chlorotetracyclin,	Lecture