



# Aggarwal College Ballabgarh

## LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Dr. Archana Chauhan

Designation/ Department: Assistant Professor Chemistry

CLASS: BSc NM		SEMESTER: 6 <sup>th</sup>	SECTION: A
SUBJECT: Organic Chemistry			
Week			
1	7-1-2025		
	8-1-2025		
	9-1-2025		
	10-1-2025	Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine	
	11-1-2025	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives	
	12-1-2025	S. U. N. D. A. Y.	
2	13-1-2025		
	14-1-2025		
	15-1-2025		
	16-1-2025		
	17-1-2025	Comparison of basicity of pyridine, piperidine and pyrrole	
	18-1-2025	Introduction to condensed five and six- membered heterocycles. Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis	
	19-1-2025	S. U. N. D. A. Y.	
3	20-1-2025		
	21-1-2025		

	22-1-2025	
	23-1-2025	
	24-1-2025	Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline
	25-1-2025	Nomenclature, structural features, Methods of formation and chemical reactions of thiols.
	26-1-2025	<b>REPUBLIC DAY /S. U. N. D. A. Y.</b>
4	27-1-2025	
	28-1-2025	
	29-1-2025	
	30-1-2025	
	31-1-2025	Thioethers, sulphonic acids, sulphonamides and sulphaguanidine
	1-2-2025	Synthetic detergents alkyl and aryl sulphonates
	2-2-2025	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
5	3-2-2025	
	4-2-2025	
	5-2-2025	
	6-2-2025	
	7-2-2025	Acidity of $\alpha$ -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate
	8-2-2025	Synthesis of ethyl acetoacetate: the Claisen condensation
	9-2-2025	<b>S. U. N. D. A. Y</b>
6	10-2-2025	
	11-2-2025	
	12-2-2025	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	13-2-2025	
	14-2-2025	Keto-enol tautomerism of ethyl acetoacetate

	15-2-2025	Assignment-01
	16-2-2025	S. U. N. D. A. Y.
7	17-2-2025	
	18-2-2025	
	19-2-2025	
	20-2-2025	
	21-2-2025	Test-01
	22-2-2025	Keto-enol tautomerism of ethyl acetoacetate
	23-2-2025	S. U. N. D. A. Y.
8	24-2-2025	
	25-2-2025	
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	
	28-2-2025	Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization
	1-3-2025	Ziegler-Natta polymerization and vinyl polymers.
	2-3-2025	S. U. N. D. A. Y.
9	3-3-2025	
	4-3-2025	
	5-3-2025	
	6-3-2025	
	7-3-2025	Condensation or step-growth polymerization. Polyesters, polyamides
	8-3-2025	Phenol formaldehyde resins, urea formaldehyde resins, epoxy resins and polyurethanes.
	9-3-2025	S. U. N. D. A. Y.

10	10-3-2025	
	11-3-2025	
	12-3-2025	
	13-3-2025	
	14-3-2025	Natural and synthetic rubbers.
	15-3-2025	Assignment-02
	16-03-2025	S. U. N. D. A. Y.
11	17-3-2025	
	18-3-2025	
	19-3-2025	
	20-3-2025	
	21-3-2025	Test-02
	22-3-2025	Classification of amino acids.
	23-3-2025	S. U. N. D. A. Y.
12	24-3-2025	
	25-3-2025	
	26-3-2025	
	27-3-2025	
	28-3-2025	Acid-base behavior, isoelectric point and electrophoresis.
	29-3-2025	Preparation of -amino acids.
	30-3-2025	S. U. N. D. A. Y.
13	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	
	2-4-2025	

	3-4-2025	
	4-4-2025	Structure and nomenclature of peptides and proteins.
	5-4-2025	Classification of proteins.
	6-4-2025	<b>S. U. N. D. A. Y.</b>
14	7-4-2025	
	8-4-2025	
	9-4-2025	
	10-4-2025	<b>HOLIDAY: MAHAVIR JAYANTI</b>
	11-4-2025	Peptide structure determination, end group analysis
	12-4-2025	Selective hydrolysis of peptides
	13-4-2025	<b>S. U. N. D. A. Y.</b>
15	14-4-2025	<b>HOLIDAY: AMBEDKAR JAYANTI</b>
	15-4-2025	
	16-4-2025	
	17-4-2025	
	18-4-2025	Classical peptide synthesis, solid-phase peptide synthesis.
	19-4-2025	Structures of peptides and proteins: Primary & Secondary structure.
	20-4-2025	<b>S. U. N. D. A. Y.</b>
16	21-4-2025	
	22-4-2025	
	23-4-2025	
	24-4-2025	
	25-4-2025	Structures of peptides and proteins: Primary & Secondary structure.
	26-4-2025	<b>Test-03</b>

	27-4-2025	S. U. N. D. A. Y.
17	28-4-2025	
	29-4-2025	
	30-4-2025	HOLIDAY: AKSHAY TRITYA
	01-05-2025	
	02-05-2025	Revision
	03-05-2025	Revision
	04-05-2025	S. U. N. D. A. Y.



Signature