

LESSON PLAN FOR EVEN SEM
SESSION 2017-18

NAME OF ASSISTANT PROFESSOR

:MS.HIMANI MADAAN

CLASS/SECTION

: B.SC. II(SEC.-C)

SUBJECT

:CHEMISTRY

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	.....	Identification of organic compound
DAY2 DATE 2-1-18	.....	Identification of organic compound
DAY3 DATE 5-1-18	Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines	Identification of organic compound
DAY4 DATE 6-1-18	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds	.....
DAY5 DATE 8-1-18	.....	Identification of organic compound
DAY6 DATE 9-1-18	.....	Identification of organic compound
DAY7 DATE 12-1-18	Gabriel-phthalimide reaction, Hofmann bromamide reaction	Identification of organic compound
DAY8 DATE 13-1-18	electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid	.....
DAY9 DATE 15-1-18	.....	Identification of organic compound
DAY 10 DATE 16-1-18	.....	Identification of organic compound
DAY11 DATE 19-1-18	Molecular vibrations, Hooke's law, selection rules	Identification of organic compound
DAY12 DATE 20-1-18	intensity and position of IR bands.	.....
DAY13 DATE 22-1-18	HOLIDAY	
DAY14 DATE 23-1-18	SPORTS DAY	
DAY15 DATE 26-1-18	HOLIDAY	

DAY 16 DATE 27-1-18	measurement of IR spectrum, fingerprint region	.....
UNIT/PART II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	.....	Identification of organic compound
DAY2 DATE 30-1-18	.....	Identification of organic compound
DAY3 DATE 2-2-18	characteristic absorptions of various functional groups	Identification of organic compound
DAY4 DATE 3-2-18	interpretation of IR spectra of simple organic compounds.	.....
DAY5 DATE 5-2-18	.....	Identification of organic compound
DAY6 DATE 6-2-18	.....	Identification of organic compound
DAY7 DATE 9-2-18	ASSIGNMENT 1	Identification of organic compound
DAY8 DATE 10-2-18	HOLIDAY	
DAY9 DATE 12-2-18	.....	Identification of organic compound
DAY10 DATE 13-2-18	HOLIDAY	
DAY11 DATE 16-2-18	Applications of IR spectroscopy in structure elucidation of simple organic compounds	Identification of organic compound
DAY12 DATE 17-2-18	Mechanism of diazotisation, structure of benzene diazonium chloride	.....
DAY13 DATE 19-2-18	.....	Identification of organic compound
DAY14 DATE 20-2-18	.....	Identification of organic compound
DAY15 DATE 23-2-18	Replacement of diazo group by H, OH, F, Cl, Br, I, NO ₂ and CN group	Identification of organic compound
UNIT/PART III	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 24-2-18	reduction of diazonium salts to hyrazines	.....

DAY2 DATE 26-2-18	.....	Identification of organic compound
DAY3 DATE 27-2-18	.....	Identification of organic compound
DAY4 DATE 2-3-18	HOLIDAY	
DAY5 DATE 3-3-18	HOLIDAY	
DAY6 DATE 5-3-18	.....	Identification of organic compound
DAY7 DATE 6-3-18	.....	Identification of organic compound
DAY8 DATE 9-3-18	coupling reaction and its synthetic application	Identification of organic compound
DAY9 DATE 10-3-18	ASSIGNMENT 2	
DAY 10 DATE 12-3-18	.....	Identification of organic compound
DAY11 DATE 13-3-18	.....	Identification of organic compound
DAY12 DATE 16-3-18	Nomenclature and structure of the carbonyl group	Identification of organic compound
DAY13 DATE 17-3-18	Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides	.....
DAY14 DATE 19-3-18	.....	Identification of organic compound
DAY15 DATE 20-3-18	.....	Identification of organic compound
DAY 16 DATE 23-3-18	HOLIDAY	
DAY 17 DATE 24-3-18	advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate	.....
UNIT/PART IV	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 26-3-18	.....	Identification of organic compound
DAY2 DATE 27-3-18	.....	Identification of organic compound

DAY3 DATE 30-3-18	Comparison of reactivities of aldehydes and ketones and their physical properties	Identification of organic compound
DAY4 DATE 31-3-18	Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol	.....
DAY5 DATE 2-4-18	.....	Identification of organic compound
DAY6 DATE 3-4-18	.....	Identification of organic compound
DAY7 DATE 6-4-18	Perkin and Knoevenagel condensations. Wittig reaction. Mannich reaction	Identification of organic compound
DAY8 DATE 7-4-18	Condensation with ammonia and its derivatives	.....
DAY9 DATE 9-4-18	.....	Identification of organic compound
DAY10 DATE 10-4-18	.....	Identification of organic compound
DAY11 DATE 13-4-18	Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen	Identification of organic compound
DAY12 DATE 14-4-18	HOLIDAY	
DAY13 DATE 16-4-18	.....	Identification of organic compound
DAY14 DATE 17-4-18	.....	Identification of organic compound
DAY15 DATE 20-4-18	Wolff-Kishner, LiAlH ₄ and NaBH ₄ reductions	Identification of organic compound

NAME OF ASSISTANT PROFESSOR :MS. HIMANI

CLASS/SECTION :B.SC.III(A)

SUBJECT :ORGANIC CHEMISTRY

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	Introduction to organosulfur:Methods of formation,chem. Rxn. Of thiol andthioether	.....
DAY2 DATE 2-1-18	Sulphonic acid	.....
DAY3 DATE 5-1-18	.....	Analysis of acidic and basic radicals
DAY4 DATE 8-1-18	Synthetic detergent	.....
DAY5	Introduction of heterocyclic compounds	.....

DATE 9-1-18		
DAY6 DATE 12-1-18	.....	Analysis of acidic and basic radicals
DAY7 DATE 15-1-18	Methods of synthesis, chemical reaction of, mechanism of nucleophilic substitution in pyridine	.....
DAY 8 DATE 16-1-18	Comparision of basicity of pyridine ,pyrolle and piperidine	.....
DAY9 DATE 19-1-18	.....	Analysis of acidic and basic radicals
DAY10 DATE 22-1-18	HOLIDAY	
DAY11 DATE 23-1-18	SPORTS DAY	
DAY12 DATE 26-1-18	HOLIDAY	
UNIT/PART II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	Introduction to five and six membered heterocycles	.....
DAY2 DATE 30-1-18	Preparation and reaction of indole and quinolone	.....
DAY3 DATE 2-2-18	.....	Analysis of acidic and basic radicals
DAY4 DATE 5-2-18	Skraup synthesis and bischler napieralski synthesis	.....
DAY5 DATE 6-2-18	Introduction to ammino acids	.....
DAY6 DATE 9-2-18	.....	Analysis of acidic and basic radicals
DAY7 DATE 12-2-18	Preparation of ammino acids	.....
DAY8 DATE 13-2-18	HOLIDAY	
DAY9 DATE 16-2-18	.....	Analysis of acidic and basic radicals
DAY10 DATE 19-2-18	Structure of protein and classification of protein	.....
DAY11 DATE 20-2-18	Peptide structure det. And classical peptide synthesis	.....
DAY212 DATE 23-2-18	.....	Analysis of acidic and basic radicals
UNIT/PART III	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 26-2-18	Structure of peptide and protein	.....

DAY2 DATE 27-2-18	Synthesis of polymers:Addition polymerisation	.....
DAY3 DATE 2-3-18	HOLIDAY	
DAY4 DATE 5-3-18	Free radical polymerisation	.....
DAY5 DATE 6-3-18	Polyester and polyamide	.....
DAY6 DATE 9-3-18	.....	Analysis of acidic and basic radicals
DAY 7 DATE 12-3-18	Phenol formaldehyde resin	.....
DAY8 DATE 13-3-18	Urea resin ,epoxy resin and polyurathanes	.....
DAY9 DATE 16-3-18	.....	Analysis of acidic and basic radicals
DAY10 DATE 19-3-18	Chain growth polymerisation	.....
DAY11 DATE 20-3-18	Vinyl polymerisation	.....
DAY 12 DATE 23-3-18	HOLIDAY	
UNIT/PART IV	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 26-3-18	Synthesis of natural rubber	.....
DAY2 DATE 27-3-18	Synthesis of synthetic rubber	.....
DAY3 DATE 30-3-18	.....	Analysis of acidic and basic radicals
DAY4 DATE 2-4-18	Organic synthesis via enolates,acidity of alpha hydrogen	.....
DAY5 DATE 3-4-18	Alkylation of ethyl acetoacetate	.....
DAY6 DATE 6-4-18	.....	Analysis of acidic and basic radicals
DAY7 DATE 9-4-18	Synthesis of ethyl acetoacetate	.....
DAY8 DATE 10-4-18	Claisen condensation	.....
DAY9 DATE 13-4-18	.....	Analysis of acidic and basic radicals
DAY10 DATE 16-4-18	Keto enol tautomeridm of ethyl acetoacetate	.....
DAY11 DATE 17-4-18	Alkylation of diethyl malonate

DAY12 DATE 20-4-18	Analysis of acidic and basic radicals
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NAME OF ASSISTANT PROFESSOR : MS.HIMANI
CLASS/SECTION : M.SC.(FINAL)
SUBJECT :ORGANIC CHEMISTRY

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	General aspects of structure determination of terpenoids	.....
DAY3 DATE 3-1-18	.....	Organic mixture analysis
DAY4 DATE 4-1-18	.....	Organic mixture analysis
DAY7 DATE 8-1-18	Structure elucidation of geraniol	.....
DAY9 DATE 10-1-18	.....	Organic mixture analysis
DAY10 DATE 11-1-18	.....	Organic mixture analysis
DAY13 DATE 15-1-18	Synthesis of geraniol	.....
DAY15 DATE 17-1-18	.....	Organic mixture analysis
DAY16 DATE 18-1-18	.....	Organic mixture analysis
DAY21 DATE 24-1-18	HOLIDAY	
DAY22 DATE 25-1-18	.....	Organic mixture analysis
UNIT/PART II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	Structure elucidation of alpha-terpinol	.....
DAY3 DATE 31-1-18	HOLIDAY	
DAY4 DATE 1-2-18	.....	Organic mixture analysis
DAY7 DATE 5-2-18	Synthesis of alpha-terpinol	.....
DAY9 DATE 7-2-18	.....	Organic mixture analysis
DAY10 DATE 8-2-18	.....	Organic mixture analysis
DAY13 DATE 12-2-18	Structure elucidation of alpha-pinene	.....

DAY15 DATE 14-2-18	.....	Organic mixture analysis
Day16 Date 15-2-18	.....	Organic mixture analysis
DAY19 DATE 19-2-18	SESSIONAL	
DAY21 DATE 21-2-18	.....	Organic mixture analysis
DAY22 DATE 22-2-18	.....	Organic mixture analysis
UNIT/PART III	TOPIC	
	THEORY	PRACTICAL
DAY2 DATE 26-2-18	Synthesis of alpha-pinene	.....
DAY4 DATE 28-2-18	HOLIDAY	
DAY5 DATE 1-3-18	HOLIDAY	
DAY8 DATE 5-3-18	Structure of camphor	.....
DAY10 DATE 7-3-18	.....	Organic mixture analysis
DAY11 DATE 8-3-18	.....	Organic mixture analysis
DAY 14 DATE 12-3-18	Synthesis of camphor	.....
DAY16 DATE 14-3-18	.....	Organic mixture analysis
DAY17 DATE 15-3-18	.....	Organic mixture analysis
DAY20 DATE 19-3-18	Structure elucidation of squalene	.....
DAY22 DATE 21-3-18	.....	Organic mixture analysis
DAY23 DATE 22-3-18	.....	Organic mixture analysis
UNIT/PART IV	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 26-3-18	Synthesis of squalene	.....
DAY3 DATE 28-3-18	.....	Organic mixture analysis
DAY4 DATE 29-3-18	HOLIDAY	
DAY7	Biogenetic isoprene rule	.....

DATE 2-4-18		
DAY9 DATE 4-4-18	.....	Organic mixture analysis
DAY10 DATE 5-4-18	.....	Organic mixture analysis
DAY13 DATE 9-4-18	Biogenesis of terpinoids	.....
DAY15 DATE 11-4-18	.....	Organic mixture analysis
DAY16 DATE 12-4-18	.....	Organic mixture analysis
DAY19 DATE 16-4-18	SESSIONAL	
DAY21 DATE 18-4-18	HOLIDAY	
DAY22 DATE 19-4-18	.....	Organic mixture analysis