

Semester: I**Course no: 313****Organic Chemistry (Theory)****Credit Hours:2+1+3****Total Periods=40****1 Period= 45min**

S.No	Topics	Main Points	References	Periods
1.	Alcohols and Ethers	<ul style="list-style-type: none">• Nomenclature (IUPAC & common systems)• Classification (1) Based on no of OH group present in compound. (2)Based on position of OH group.• Methods of preparation of alcohols.• Chemicals properties of alcohols.• Uses		10
2.	2.Carbonyl Compounds (Aldehyde and Ketones)	<ul style="list-style-type: none">• Definition• Functional groups of Aldehyde and Ketons.• Nomenclature(IUPAC & Common)• Isomers, methods of preparation and chemical reactions.• Uses		6
3.	3.Carboxylic acid and Esters	<ul style="list-style-type: none">• Definition, Nomenclature, methods of preparation, reactions and uses.		4
4.	4.Aromatic Hydrocarbons, Benzene and Phenol	<ul style="list-style-type: none">• Definition, Nomenclature, preparation, reactions, uses		6
5.	Dyes	<ul style="list-style-type: none">• Theories of color, definition of dyes and classification of dyes on the basis of chemical structure and methods of application		2

BOOKS RECOMMENDED

1. Organic Chemistry by Bhal
2. Practical Book by Miss Nuzhat Nasir

Semester:I				
Course no:		(Practical)	Credit Hours:2+1+3	
S.No	Topics	Main Points	References	Periods
1	1.Analysis of organic compound <ul style="list-style-type: none">• Amide• Thiomide• Carboxylic acid• PhenolAldehyde• Sulphonic acid	<ul style="list-style-type: none">• Analysis of functional group carried out in three steps<ol style="list-style-type: none">a.Priliminary examinationsb.Element detectionc.Functional group detection		9
2.	Preparation of organic compound			2

Marking Scheme:

Exam	Total Marks	Objectives	Subjective
Theory Mid Term	32	60-80 %	20-40%
Theory Final Term	48	60-80 %	20-40%
Practical Mid Term	8		
Practical Final	12		