

## ORGANIC CHEMISTRY (LABORATORY)

II/IV CHEMICAL ENGINEERING (I-SEM)

(With effect from admitted batch 2020-21)

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### Course Objectives

To improve skills in synthesizing organic compounds using various chemical techniques.  
To enable the students to analyze the functional group in the organic compound through qualitative analysis

### Course Outcomes

CO No.	Statement	Marks Allotted			
		Continuous Assessment	Internal lab	Viva-voce & Record	Total Marks
CO-1	Synthesize and analyze the properties and nature of the organic compound.	10	05	5	20
CO-2	Use different types of solvents and reagents in analyzing the functional group of the organic compound.	10	15	5	30

### SUBJECT NAME: ORGANIC CHEMISTRY LAB

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1	2					1	1	1			2	1
CO-2	2					1		1			2	1

### LIST OF EXPERIMENTS:

#### CYCLE-1

One step synthesis of organic compounds and determination of melting point:

1. Phthalimide
2. Nerolin
3. m-dinitrobenzene
4. Methyl Orange
5. Micro-Wave (MW) assisted green synthesis of Benzoic acid from Benzamide (Demonstration)

#### CYCLE-2

Qualitative analysis for the identification of functional group in the organic compound:

1. Demonstration of Qualitative analysis
2. Analysis of Compound -1
3. Analysis of Compound -2
4. Analysis of Compound -3
5. Analysis of Compound -4
6. Analysis of Compound -5
7. Analysis of Compound -6

#### **Prescribed book:-**

Organic Chemistry Lab Manual prepared by Department of Chemistry.

#### **Reference books:-**

Vogel's textbook of Practical Organic Chemistry, 5<sup>th</sup> edition, Pearson education.