

CH 151 BS

**APPLIED CHEMISTRY LABORATORY**  
**(For BME only)**

Instruction	: 3 Hours/Week
Duration of SEE	: 3 Hours
SEE	: 50 Marks
CIE	: 25 Marks
Credits	: 1.5

**Course Objectives:**

- To identify the functional groups present in a given organic compound
- To prepare the given organic compound
- To estimate HCl and CH<sub>3</sub>COOH by conductometric technique

**1. Identification of the functional group in the given organic compound by qualitative test:**

- i) Carboxylic acids
- ii) Phenols
- iii) Amines
- iv) Aldehydes and ketones
- v) Carbohydrates

**2. Preparation of the following Organic Compounds:**

- i) Acetanilide
- ii) Aspirin
- iii) Azo-dye
- iv) Benzylidene aniline

**3. Acid-base titrations using the following instruments**

- i) Conductivity meter
- ii) pH meter
- iii) Potentionmeter

**4. Estimation of Glucose by Colorimetry.**

**Suggested Readings:**

1. PG Mann, BC Saunder, *Practical Organic Chemistry*, Orient Longman Ltd, 4<sup>th</sup> Edition. (1999).
2. BD Khosla, A. Gulati, *Senior Practicla Physical Chemistry*, VC Garg, Chand & Co, 10<sup>th</sup> Edition (2001).