

University of Al-Anbar

College of Pharmacy

Department of Pharmaceutical Chemistry

Title of the course: *Practical Organic Chemistry II*

Level: 2nd Class, 1st Semester

Credit hours: **Laboratory 1 credit 2 hours/week**

Tutors:

Reference text: *Lab Manual for Organic Chemistry Adopted by the Department.*

Objectives: To enable students to understand the chemistry of carbon, and the classification, properties and reactions of organic compounds. It includes understanding the basic structure and properties of organic halides, carboxylic acids, aldehydes, ketones and amines, in addition to the principles and application of stereochemistry on these compounds.

No	Lab title	hours
1.	Determination of melting point (Known sample).	2
2.	Determination of melting point (quiz and unknown).	2
3.	Determination of boiling point (known sample).	2
4.	Determination of boiling point (quiz and unknown).	2
5.	Elemental analysis (explanation of basic concepts).	2
6.	Elemental analysis (known quantity and quality sample).	2
7.	Solution and filtration techniques (explanation of basic concepts).	2
8.	Re-crystallization (known sample).	2
9.	Re-crystallization (quiz and unknown sample).	2
10.	Extraction technique (known sample).	2
11.	Extraction technique (quiz and unknown).	2
12.	Distillation techniques (known samples).	2
13.	Distillation techniques (quiz and unknown).	2
14.	Sublimation technique (known sample).	2
15.	Sublimation technique (quiz and unknown).	2