



MUTAH UNIVERSITY
Faculty of Engineering
Department of Chemical Engineering



Industrial Organic Chemistry

COURSE SYLLABUS

Course Code	Course Name	Credits	Contact Hours
0404216	Industrial Organic Chemistry	3	1

INSTRUCTOR/COORDINATOR	
Name	Eng. Bahia Maitah
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Website	

TEXTBOOK
Organic Chemistry, a short course, Hart, Hadad, Crain and Hart 13 th ed.
Other Supplemental Materials

SPECIFIC COURSE INFORMATION
A. Brief Description of the Content of the Course (Catalog Description)
This course aims to teach students the basic principles of organic chemistry. The first part of the course will cover the fundamental aspects of structural organic chemistry to familiarize the students the main families of organic chemistry functions as well as the 3D structure of organic molecules. The basics of reactivity will also covered using the mechanisms.
B. Pre-requisites (P) or Co-requisites (C)
P: 0404122
C. Course Type (Required or Elective)
Required

SPECIFIC GOALS

A. Specific Outcomes of Instruction

By the end of this course, the student should be able to:

1. Understand the structural organic chemistry for main families of organic chemistry.
2. Understand the 3D structure of organic molecules.
3. Manipulate the basic of reactivity and the mechanisms
4. Manipulate the functional groups transformations

B. Student Outcomes Addressed by the Course

1	2	3	4	5	6	7				
✓										

BRIEF LIST OF TOPICS TO BE COVERED

List of Topics	No. of Weeks	Contact Hours
Chapter 1 Bonding and Isomerism	1	3
chapter 2 Alkanes and Cycloalkanes	3	9
chapter 3 Alkenes and Alkynes	2	6
chapter 4 Aromatic compounds	2	6
chapter 5 Alcohols, Phenols and Thiols	2	6
Chapter 6 Aldehydes and Ketones	2	6
Chapter 7 Carboxylic acids and Their Derivatives	2	6
Total	14	

METHODS OF ASSESSMENT

No.	Method of assessment	Week and Date	%
1	Mid Examination	8th week	30
2	Homeworks	Homework/week	20
3	Online final examination	End of Semester	50
Total			100