

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Organic Chemistry (0304102)
Course number	MEDI1416
Faculty	
Department	
Course type	Major Needs
Course level	1
Credit hours (theoretical)	3
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

- 1 - the basic objective of this course is to provide a solid foundation of organic chemistry for students considering advanced studies in chemistry and other important areas such as biochemistry, medical fields, applied life sciences that require a though understanding of organic chemistry

Intended Learning Outcomes

Knowledge and Understanding

- * • Gain an understanding of composition of matter and its properties. • Recognize the ways that elements are combined to form compounds (ionic, covalent, and dative bonding). • Be able to write and balance chemical equations and perform calculations involving equations. • Be able to draw structural formulas of organic molecules, recognize the classes of organic molecules, and learn about how the different classes react to various reagents. • Apply the principles organic chemistry to the molecules that form the basis of life. • Learn the characteristics of the four classes of biochemical molecules.

Course Contents

- 1 - This course studies the structural formula and the main physical and chemical properties of basic organic compounds including aliphatic hydrocarbon compounds (cyclic and non- cyclic), aromatics, alcohols, amines, aldehydes, halides, ketones, and carbohydrates. The practical part of this course concentrate on studying the chemical properties of the above-mentioned compounds (prerequisite: General Chemistry for medicine).

Teaching and Learning Methods

- 1 - The course consists of (36 hours) lectures , and (12 hours) for the practical part of the course. The students will have the plane of the course at the beginning of the semester including all the important date of the contents and examinations.

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First Mid-Term	According to the academic calendar of the university	20/50
Second Mid-Term	According to the academic calendar of the university	20/50
Attendance and student activity	During the semester	10/50
Final Exam.	According to the academic calendar of the university	50/50
Mid term for practical part of the course	According to the academic calendar of the university	50/50
Final exam for the practical part of the course	According to the academic calendar of the university	50/50

Books and References

Essential books	Organic Chemistry (A short course) Hart /Craine/Hart/ Hadad (Twelfth Edition)
Recommended books	Organic Chemistry (Morrison and Boyd) Sixth Edition