Course Description Form of Organic Chemistry

1.	Course Name:
Organic Chemistry	
2.	Course Code:
COA-1102	
3.	Semester / Year:
first semester/ 2024-2025	
4.	Description Preparation Date:
15/1/2025	
5.	Available Attendance Forms:
Attending	
6.	Number of Credit Hours (Total) / Number of Units (Total)
150 hours / 6 units	
7.	Course administrator's name (mention all, if more than one name)
Name: Eman Rahman Mahdi Abed Email: **emanrahman@uodiyala.edu.iq**	
8.	Course Objectives
Course Objectives	• The course aims to teach students the basics and concepts of chemistry of saturated and unsaturated aliphatic hydrocarbon compounds. It includes lessons on the chemical bonds and chemical formulas of hydrocarbon compounds. It also includes a definition of each of these compounds, its name, and its derivatives according to the international IUPAC system, as well as the physical properties of each compound and its chemical interactions with other hydrocarbon compounds.
9.	Teaching and Learning Strategies
Strategy	1- Explains the basic concepts in organic chemistry. 2- Distinguish the chemical formulas of hydrocarbon compounds. 3- Differentiate between the types of chemical reactions of hydrocarbon compounds 4- Compares the results of reactions of hydrocarbon compounds. 5- It applies the IUPAC rules for naming hydrocarbon compounds 6- Conducts experiments to detect hydrocarbon compounds in the laboratory 7- Writing laboratory reports on the analysis of hydrocarbon compounds is completed according to guidelines.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2	Explains the basic concepts in organic chemistry	Organic chemistry	Explanation, presentation of the model and lecture	The exam
2	2	Distinguish the chemical formulas of hydrocarbon compounds.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
3		Differentiate between the types of chemical reactions of hydrocarbon compounds.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
4	2	Compares the results of reactions of hydrocarbon compounds	Organic chemistry	Explanation, presentation of the model and lecture	The exam
5	2	It applies the IUPAC rules for naming hydrocarbon compounds.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
6	2	Tests for detecting hydrocarbon compounds are conducted in the laboratory	Organic chemistry	Explanation, presentation of the model and lecture	The exam
7	2	The writing of laboratory reports on the analysis of hydrocarbon compounds is completed according to guidelines.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
8	2	He works efficiently within a team analyzing and testing the properties and ingredients of food products.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
9	2	The information network is used to obtain modern knowledge in the	Organic chemistry	Explanation, presentation of the model and lecture	The exam

		field of organic chemistry.			
10	2	Explains the basic concepts in organic chemistry. It explains the foundations and principles of basic sciences and their applications in agricultural sciences, food technology, and nutrition, explaining the chemical composition of food contents, their interactions, food spoilage factors, and appropriate preservation and manufacturing methods.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
11	2	Assesses nutritional needs for different age groups	Organic chemistry	Explanation, presentation of the model and lecture	The exam
12	2	It efficiently employs modern technologies related to agricultural operations and food production to develop and improve the food product and applies the correct specifications and standards in the field of food science and nutrition, food analysis and composition, and the changes that occur.	Organic chemistry	Explanation, presentation of the model and lecture	The exam
13	2	He works with his colleagues in a team spirit, and the ability to communicate with others	Organic chemistry	Explanation, presentation of the model and lecture	The exam

14	2	It carries out applied research and uses statistical programs in experimental design and data analysis in the field of food and nutrition research	Organic chemistry	Explanation, presentation of the model and lecture	The exam

11. Course Evaluation
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1- Youssef Ali Al-Fattahi, 1989, Foundations of Organic Chemistry, a methodological book for students of the College of Agriculture and Life Sciences, University of Baghdad, House of Wisdom
Main references (sources)	Raymond Chang 2002 “Chemistry”7th Ed.McGraw- Hill Higher Compaine. • Richard E. Beleil (2005). General chemistry Lab. Manual, Dakota State university, U.S.A
Recommended books and references (scientific journals, reports...)	Iraqi academic scientific journals
Electronic References, Websites	Library Genesis