

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Organic Chemistry		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code			
ECTS Credits			
SWL (hr/sem)			
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Dr. Taghreed Sabah Hussein	e-mail	Ted38456@gmail.com
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2024	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<ol style="list-style-type: none">1. Description of the basics and principles of organic chemistry, the quality of chemical compounds, and the basis for their formation and composition2. Knowledge and application of traditional methods of chemical organic preparation depending on the nature and conditions of the chemical reaction3. Understanding organic chemical experiments and their steps4. Understanding the formation of hydrocarbon chains, types of organic classes, types of organic active groups, chemical interaction5. Knowledge of the theoretical foundations of the sections and branches of organic chemistry, and the steps of reactions and preparation in the laboratory or laboratory6. Industry and methods of reactions available for the manufacture of organic compounds and the catalyst and its mechanism
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none">1. That the student be able to define organic chemistry and its divisions2. That the student be able to describe the sections and categories of organic chemistry3. That the student be able to understand the principles, types and theoretical basis for each type of organic compounds4. To be able to apply chemical reaction conditions such as heat or pressure to prepare the organic compound5. Describe the steps of an organic reaction and study it from the point of view of spontaneous or non-spontaneous occurrence6. How to explain the presence of the catalyst and the effect of the presence of active groups for each organic variety
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Part I:</p> <p>1. Introduction to Chemistry Introduction to periodic table Basic of bonding which occurs to form the molecules and study its properties. Main definition of some terms</p> <p>2. Introduction to Organic Chemistry</p> <p>Part II: Nomenclature, Preparation and reaction of:</p> <ol style="list-style-type: none">3. Acyclic saturated hydrocarbon compounds4. Cyclic saturated hydrocarbon compounds5. Acyclic unsaturated hydrocarbon compounds part I6. Cyclic unsaturated hydrocarbon compounds part I7. Acyclic unsaturated hydrocarbon compounds part II8. Cyclic unsaturated hydrocarbon compounds part II9. Alcohol10. Aldehydes11. Ketones12. Other Organic Compounds (Carboxylic acids, Ethers, Phenols, Amines)13. Reactions of Benzene and Substituted Benzenes

	Part III: 14. Physical Properties of Organic Compounds Boiling Points, Solubility and other properties
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Method of lecturing 2. Student Center 3. Team Project 4. Work Shop 5. Scientific trips to monitor environmental pollution 6. Learning Technologies on Campus 7. Experiential Learning 8. Application Learning

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل		Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل		Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل			

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Chemistry
Week 2	Introduction to Organic Chemistry
Week 3	Acyclic saturated hydrocarbon compounds
Week 4	Cyclic saturated hydrocarbon compounds
Week 5	Acyclic unsaturated hydrocarbon compounds part I
Week 6	Cyclic unsaturated hydrocarbon compounds part I
Week 7	Exam 1
Week 8	Acyclic unsaturated hydrocarbon compounds part II
Week 9	Cyclic unsaturated hydrocarbon compounds part II
Week 10	Alcohol
Week 11	Aldehydes
Week 12	Ketones
Week 13	Other Organic Compounds (Carboxylic acids, Ethers, Phenols, Amines)
Week 14	Reactions of Benzene and Substituted Benzenes
Week 15	Physical Properties of Organic Compounds
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Determination of melting point
Week 2	Lab 2: Determination of boiling point
Week 3	Lab 3: Purification of solid organic compounds
Week 4	Lab 4: Purification of liquid organic compounds-simple distillation
Week 5	Lab 5: Purification of liquid organic compounds-fractional distillation
Week 6	Lab 6: Differential Extraction
Week 7	Lab 7: Chromatography

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Bruice, P. Y., Organic Chemistry, 7th Edition, 2014, Pearson Education, Inc.	No
Recommended Texts	Bruice, P. Y., Organic Chemistry, 7th Edition, 2014, Pearson Education, Inc.	No
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.