	Ministry of Higher Education and Scientific Research - Iraq University of WARITH ALANBIYAA College of Sciences Department of Medical Physics	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	ORGANIC CHEMISTRY			**Module Delivery**	
Module Type	BASIC			**Theory** √ **Lab** √ **Tutorial**√ **Seminar**√	
Module Code	MPH1206				
ECTS Credits	7				
SWL (hr/sem)	175				
Module Level	1		**Semester of Delivery**	2	
Administering Department	MPH1206		**College**	College of Sciences	
Module Leader	Asaad Abaas Khalaf		**e-mail**	asaad.ab@.uowa.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	PhD in Biochemistry	
Module Tutor	Sajad Ahmed Kadhim		**e-mail**	sajad.ah@uowa.edu.iq	
Peer Reviewer Name			**e-mail**		
Review Committee Approval			**Version Number**	1.0	

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	No	**Semester**	-
Co-requisites module	No	**Semester**	-
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	- Teaching the students organic chemical reactions, chemical structures, knowing the form of organic compounds, and how to - Clarifying the mechanics of organic reactions and their practical applications aimed at developing and keeping pace with scientific development. For organic chemistry. - Teaching and educating students on all the necessary and necessary information related to organic chemistry, qualifies them to work and research in all areas of organic chemistry		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Sudents will be able to obtain knowledge and understanding of organic chemistry. 2- Students will be able to obtain knowledge and understanding of structures. 3- Students will be able to obtain knowledge and understanding of pile mechanics. 4- Students will be able to obtain knowledge and understanding of the functional communication of organic chemistry. 5- Students will be able to obtain knowledge and understanding of classical and modern methods of extraction. 6- Students will be able to obtain knowledge and understanding the research through analyzing the published research papers and writing a mini-research from them.		

Indicative Contents المحتويات الإرشادية	1- Introducing students to organic chemistry and its importance in our lives 2- Introducing students to hydrocarbons and their types. (Alkanes, alkenes and alkynes). 3- Introducing the student to methane gas and the method of its preparation. 4- Introducing students to alkanes and their properties. 5- Introduce students to the interactions of alkanes. 6- Defining and unsaturateding hydrocarbons and their types. 7- Introducing the student to alkenes, naming them and their characteristics. 8- Introducing students to the methods of preparing alkenes. 9- Introducing the student to the reactions of alkenes. 10- Familiarizing students with the detection of alkenes. 11- Introducing the student to the entities and their characteristics and naming them 12- Introducing the student to the interactions of alkynes 13- Introduce the student to the reactions of aliphatic cyclic compounds 14- Identification, description and naming of aromatic compounds. 15- Introducing the student to the reactions of aromatic compound.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1- Following Lecture method and the use of the interactive whiteboard 2- Explanation and clarification Providing students with the basics and additional topics related to the outputs of chemical thinking and analysis organic. 3- Forming discussion groups during lectures to discuss organic chemistry topics that require thinking and analysis 4- Asking students a set of reflective questions during the lectures, such as what, how, when and why for specific topics 5- Giving students homework that requires self-explanations in causal ways

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	90	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	9
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	85	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	31
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	4	5	2, 4, 5, 6, 9	1, 2, 3, 3, 4
	reports	7	1	All Weeks	3, 4, 5
	Projects	1	7	8	2, 6
	Homework	2	3	3,5,7	2,4,5
Summative assessment	**Midterm Exam**	1	10	8	
	Final Exam	1	50	15	
Total assessment			100		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	General Principles in Organic Chemistry.
Week 2	Saturated Aliphatic Hydrocarbons.
Week 3	Aliphatic Cyclic Compounds.
Week 4	Alkanes.
Week 5	Alkenes.
Week 6	Alkynes.
Week 7	Organic Halides.
Week 8	**Mid-term exam.**
Week 9	Ethers.
Week 10	Alcohols.
Week 11	Aldehydes and ketones.
Week 12	Carboxylic Acids.
Week 13	Introduction to Amines.
Week 14	Ammonium Compounds.
Week 15	**Final exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الأسبوعي للمختبر	
	Material Covered
Week 1	Laboratory safety and Acquaintance with glassware and apparatus in the organic chemistry laboratory
Week 2	Exp1: Determine the melting point by means of a capillary tube for some organic substances and using the point m device.
Week 3	Exp2: Analyzing the melting of some solids and choosing the appropriate solution for recrystallization.
Week 4	Exp3: Determine the boiling point by means of a capillary tube for some organic substances and using the point m device.
Week 5	Discussion for the reports of experiment 1, 2 and 3.
Week 6	Discussion of Project-1
Week 7	Ex4: Extraction (base acid extraction).
Week 8	Ex5: Crystallization Filtration Types
Week 9	Discussion for the reports of experiment 4 and 5.
Week 10	Discussion of Project-2
Week 11	Ex6: Application of some methods of separation of sublimated organic compounds.
Week 12	Ex7: TLC Extraction
Week 13	Discussion for the reports of experiment 6 and 7.
Week14	Discussion of Project-3
Week 15	Final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1- Organic chemistry, Morrison and Boyd . 2- Chemistry, Clayden J., Creeves N., Warren S and Wother P., Oxford, 2001.	
Recommended Texts	Organic Chemistry	
Websites	https://en.wikipedia.org/wiki/Organic_chemistry	

APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB 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.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي