جامعة: المنصورة كلية: العلوم قسم: الكيمياء

## توصیف مقرر در اسی

يانات المقرر						
المستوى:	أسم المقرر:	الرمز الكودى :(Chemistry (2)				
1 1 1 1 1 1 1 1 1	Ougania Chamistur	Cham 121D				
الثاني (بيولوجي)	Organic Chemistry	<b>Chem 131B</b>				

For students undertaking this course, the aims are to:	٢ - هدف المقرر:
<ul> <li>Introduce the basic concepts of organic chemistry.</li> </ul>	
<ul> <li>Introduce the principles of nomenclature of major classes of organic compounds.</li> </ul>	
<ul> <li>Study the methods of preparation of major classes of organic compounds.</li> </ul>	
<ul> <li>Study the physical properties of major classes of organic compounds.</li> </ul>	
<ul> <li>Study the chemical reactions of major classes of organic compounds.</li> </ul>	
<ul> <li>Enable the students to use chemical reactions in preparing different organic compounds.</li> </ul>	
	٣- المستهدف من التدريس
a- Knowledge and Understanding: On completing this course,	أ- المعلومات والمفاهيم:
students will be able to:	-f.# · · · · · · · · · · · · · · · · · · ·
al- define the basic concepts of organic chemistry.	
a2- identify the different classes of organic compounds and their	
reactivities.	
a3- list the different functional groups in organic compounds.	
b- Intellectual Skills: On completing this course, students will be able	
to:	ب- المهارات الذهنية
b1- apply nomenclature rules to name any organic compound.	
b2- distinguish different organic reactions.	
b3- predict products of a hypothetical reaction.	
c-Professional and Practical Skills: On completing this course,	ج- المهارات المهنية الخاصة بالمقرر:
students will be able to:	الخاصة بالمقرر:
c1- identify simple unknown organic compounds.	
c2- differentiate by experiment between different organic	
compounds.	
c3- determine the class of unknown organic compounds.	
d-General and Transferable Skills: On completing this course,	د- المهارات العامة:
students will be able to:	
d1- work effectively both in a team, and independently on solving	
organic chemistry problems.	
d2- use IT and search for information.	
d3- Identify rules and responsibilities.	

TT 1 1						٤ محتوى المقرر:
Hydrocarbon		1.15				٢- محتوى المعرر:
· ·	• Alcohols (mono-, di- & trihydric)					
• Mercaptans, Ethers, Thioethers.						
• Aliphatic aldehydes and ketones.						
• Carboxylic acids & acid derivatives.						
• Amines, urea						
	stry & isomerisi		• • • •			
•	• Carbohydrates (mono- and disaccharides).					
	npounds, benze	ene and	its deri	vative	es ·	
Hologen com	pounds					
• Phenols						
	ehydes and ket		0 11 1	11	`	
Aromatic can     aromatic sulp	boxylic acids (r bhonic acids	nono- d	&dicarb	oxyli	e),	
Aromatic am	ines					
Practical: Identific		organi	ic comp	ounds	•	
4 - Teaching and L			-			٥_ اساليب التعليم
9	using data show		oard			<ul><li>٥- اساليب التعليم</li><li>والتعلم:</li></ul>
	orks, reports an			ouns		
4-\(\mathbf{T}\). Laborator		d discu	ssion Si	oups		
The same as norm	•	v skelet	tal disal	rilitie	are allowed in	٦- أساليب التعليم
the Faculty of Scie		y skeret	tai uisai	Jiiities	are anowed in	والتعلم للطلاب ذوى
the Faculty of Scie	ince.					القدرات المحدودة:
						٧- تقويم الطلاب:
Student Assessmen	t Methods					أ- الأساليب المستخدمة:
Final exam	to assess	a1-a	a3, b1-b	3		
Oral exam	to assess			3		
Practical exam	to assess	c1-c3,d1,d3				
Quizzes	to assess	a1-a3, b1-b3				
Report	to assess	71.70				
Assessment Sched	ule					ب- التوقيت:
Assessment 1	Week#			14		
Assessment 2	Week #	Week#		14		
Assessment 3	Week#	Week#		12		
Assessment 4	Week#			4, 8, 12		
Assessment 5	Week#	Week # 10				
Weighting of Assess						ج- توزيع الدرجات:
Final-Term Examination 70						
			10			
Practical Examination 20			20			
	Semester work 0					
Other tvi	Other types of assessment 0					
	Total 100			1		
1 Utai			100			

نمة الكتب الدراسية والمراجع:		
nciples of Organic Chemistry issued and authorized by chemistry	کرات:	
partment		
ganic Chemistry , Straumanis, Andrei, Houghton Mifflin	ئتب ملزمة	
rcourt, Boston (2009)		
ssenden & Fessenden, Organic Chemistry, Willard Grant Press,	لتب مقترحة:	
ston, Massachusetts, 2nd Edn. (1982)		
p://en.wikipedia.org/wiki/Organic_chemistry	وريات علمية أو	
p://www.organic-chemistry.org/	وريات علمية أو ات.	
p://www.acdlabs.com/iupac/nomenclature/		

## (أ) مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

المحتويات للمقرر	اسبوع الدراسة	المعارف الرئيسية	مهارات ذهنیة	مهارات مهنیة	مهارات عامة
Hydrocarbons		الربيسية a1,a2,a3	دهبیه b1, b2, b3	مهنيه	عامه
•	1				
Alcohols (mono-, di- & trihydric)	2	a1,a2,a3	b1, b2, b3	c3	d2
Mercaptans, Ethers, Thioethers.	3	a1,a2,a3	b1, b2, b3		
Aliphatic aldehydes and ketones.	3	a1,a2,a3	b1, b2, b3	c3	
Carboxylic acids & acid derivatives.	4	a1,a2,a3	b1, b2, b3	c3	
Amines, urea.	5	a1,a2,a3	b1, b2, b3	c3	
Stereochemistry & isomerism.	6	a1,a2,a3	b1, b2, b3		d2,d3
Carbohydrates (mono- &	7	a1,a2,a3	b1, b2, b3	c3	
disaccharides)	,				
Aromatic compounds: Benzene & its	8	a1,a2,a3	b1, b2, b3		d2
derivatives.	U				u2
Halogen compounds.	9	a1,a2,a3	b1, b2, b3		
Phenols	9,10	a1,a2,a3	b1, b2, b3	c3	
Aromatic Aldehydes & Ketones.	11,12	a1,a2,a3	b1, b2, b3	c3	d2
Aromatic carboxylic acids (mono- &		a1,a2,a3	b1, b2, b3		
dicarboxylic), Aromatic sulphonic	13			<b>c3</b>	
acids.					
Aromatic amines.	14	a1,a2,a3	b1, b2, b3		
Practical: Identification of simple organic compounds.	7-11			c1,c2,	d1,d3
or Sumo compounds.					

رئيس مجلس القسم العلمى: أ.د. أحمد فوزي العاصمي

أستاذ المقرر: أحمد حامد فضة