جامعة: المنصورة

كسلية: العلوم

قسم / الكيمياء

توصیف مقرر دراسی

		١ -بيانات المقرر
	أسم المقرر :Chemotherapy	
المستوى: الرابع	Environmental chemistry and	الرمز الكود :ك٣٣٤
	pollution	
رین: ۰ عملی: ۰	عدد الوحدات الدراسية: ٢ نظرى : ٢ تمار	البرنامج: الكيمياء

For students undertaking this course, the aims are to:	٢- هدف المقرر:
1 - Acquiring the student the skills of synthesizing therapeutically compounds.	
2 - Acquiring the student the basic information of pollution and environmental chemistry.	
3 - Acquire students the skills of using IT and communication technology and using scientific literature and preparing technical reports.	
4 - Generate in students an appreciation to exhibit the sense of beauty and neatness in Good's ability in therapeutically compounds.	
دريس المقرر:	
a- Knowledge and Understanding:	أ-المعلومات والمفاهيم:
a - 1 - Define the basic concepts to find a drug to compact a particular disease.	
a - 1 - Define the basic concepts to find a drug to compact a particular disease.	
a - 2 - Explain the different classes of therapeutically compounds.	
a - 3 - Define the basic concepts of pollution and environmental chemistry.	
On completing this course, students will be able to:	
b- Intellectual Skills: On completing this course, students will	mil da atti
be able to:	ب-المهارات الذهنية

b - 1 - Distinguish different classes of therapeutically compounds.	
b - 2 - Outline suitable methods to design and synthesize some biological active compounds.	
b - 3 - Outline suitable methods to detect water and air pollutants.	
c-Professional and Practical Skills: On completing this course,	ج- المهارات المهنية الخاصة بالمقرر:
c - 1 - design and synthesize compounds that might have a desired biological activity.	الخاصة بالمقرر:
c - 2 - Change the structure of the lead compound (molecular modification) to find one that might have improved therapeutic properties or fewer side effects.	
c - 3 - Prepare technical report using scientific literature.	
students will be able to:	
d-General and Transferable Skills: On completing this course,	د- المهارات العامة:
d - 1 - Use IT and web search engines for collecting information.	
d - 2 - Work effectively both in a team, and independently on solving organic chemistry problems.	
d - 3 - Communicate effectively with his teacher and colleagues.	
students will be able to:	
1- Chemotherapy: Disinfectants drugs.	٤ محتوى المقرر:
Approaches to the problem of finding a drug to compact a particular disease.	
3- Antibacterial agents (sulphonamides - sulphanilamide - sulphapyridine - sulphathiazole - sulphadiazine - sulphamathzine -sulphaguanidine - prontosil – prontosils).	
4- Antimalarials (plasmoquin, mepacrin proguanil - arsenical drugs).	
5- Antibiotics (thepenicillins - synthetic penicillins - cephalosporinic, streptomycin, tetracycline, chloramphenicol).	
6- Five-membered heterocycles derivatives of pyrrolidine, nitrofurans, oxazolidinediones and isoxazole, pyrazolones and pyrazolodiones.	
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Assessment	1 '	Week #f	inal exam	Wee	k 14	
Assessment Schedule					ب- التوقيت :	
Report	to assess		d1-d3			
Mid-term exam	To assess		a1-a3, b1-b3			
Final exam Oral exam	to asse		a1-a3, b1-b3 a1-a3, b1-b3			
7- Student As	sessment	Method	T		1	أ- الأساليب المستخدمة :
						٧- تقويم الطلاب:
The same as normal students, only skeletal disabilities are allowed in the Faculty of Science.					 ٦- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة: 	
2 - Home works, r	2 - Home works, reports and discussion groups.					٥- اساليب التعليموالتعلم:
1 - Lectures using						٥- اساليب التعليم
14- Treatment						
12- Methods fo 13- Treatment				luents		
11- Techniques			·	tic pol	lutants.	
10- Air quality s eutrophicati				oolluta	nts,	
9- Pollutants, Atmospheric pollution (Air pollutants, Chemistry involved in Green house effect, Ozone depletion, Acid rain and Photochemical smog).						
8- Chemistry related to atmosphere, hydrosphere and lithosphere.						
Chemistry involved in environmental processes.						
7- Environmer	ntal chemisti	ry and poll	ution: Some cor	ncepts	and principles of	

Assess	essment 2 Week #oral e		exam	Week 14		
Assess	Assessment 3 Week #mid-te exam		erm	Week 7		
Assess	sment 4	Week #repor	t	Week 10		
Weig	ghting of Asses.	sments		1	l	ج- توزيع الدرجات :
	Final-Term Ex		80%			
	Oral Examin	ation	10%			
	Practical Exa	amination	0%			
	Semester work		5%			
	Mid-term examination		5%			
	Other types of assessment		0%			
	Total		100%	1		
			<u> </u>	:	والمراجع	ا ^- قائمة الكتب الدراسية
1 - Chem	otherapy					أ- مذكرات:
2 - Pollut	tion Chemistry					
						ب- کتب ملزمة
						ج- كتب مقترحة :
1.	1. http://www.organic-chemistry.org/				د- دوريات علمية أو	
2. http://en.wikipedia.org/wiki/Organic_chemistry					نشرات	

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسى

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنیة	مهارات عامة
Chemotherapy: • Disinfectant drugs – approaches to the problem of finding a drug to compact a particular disease	1-2	a1	b1	c1	d1, d2, d3
 Antibacterial agents – sulphonamides sulphanilamide – sulphapyridine – sulphathiazole – sulphadiazine – sulphamathzine – sulphaguanidine – prontosils. Antimalarials – plasmoquin – mepacrin proguanil – arsenical drugs. Antibiotics – the penicillins – synthetic penicillins. 	3-6	a2	b2	c2	d1, d2, d3
Environmental Chemistry, Pollution: • Air pollution – general considerations – carbon monoxide – nitrogen oxides – hydrocarbons and photochemical oxidants – sulphur dioxides – particulates.	7-9	a3	b3	c3	d1, d2, d3
Water pollution - general considerations – detergents – synthetic organic pesticides – oil – toxic metals – waste water treatment.	10-12	a3	b3	c3	d1, d2, d3

أستاذ المادة: د/ أحمد فكرى عبد الحق شلبي

رئيس مجلس القسم العلمي : أ.د / سالم السيد على السيد سمرة