جامعة: المنصورة

كسلية: العلوم

قسم / الكيمياء

توصیف مقرر دراسی

		١- بيانات المقرر
المستوى: الرابع	أسم المقرر: catalysis	الرمز الكود:ك ١٤١
رین: - عملی:۳	عدد الوحدات الدراسية: ٣ نظرى : ٢ تم	البرنامج: الكيمياء

	٢- هدف المقرر:
1 - Acquiring the student with the basic principle of Physical Chemistry., Catalysis, Solid state, and colloids	
2 - Acquiring the student the general methods for elucidation of Catalysis, Solid state, and colloids	
3 - Acquiring the student the skills of preparing Colloidal solutions and Catalysts.	
For students undertaking this course, the aims are to:	
دريس المقرر:	ا ٣-
a- Knowledge and Understanding:	أ المعلومات والمفاهيم:
a - The basic information about different of type catalysis, Solid state and colloids.	
a - The general method of preparation of catalysts and colloids	
On completing this course, students will be able to:	
b- Intellectual Skills: On completing this course, students will	
be able to:	ب-المهارات الذهنية
b - The ability to differentiate between different types of Catalysis, and colloids on The ability to recognize the different types of theories and relationship between different relations.	
c-Professional and Practical Skills: On completing this course,	ج- المهارات المهندة
students will be able to:	

c - The ability of s	الخاصة بالمقرر:			
Solid interface an				
d-General and	د- المهارات العامة:			
chemical reaction		d to make theoretical ballity to elucidate of the semical reaction.	•	
students will be	e able to:			
•	mogeneous catalys absolute rate of su	is, heterogeneous cataly rface relations.	ysis, Kinetics, and	٤- محتوى المقرر:
	•	I structure, semiconduction and linear defect.	etor,	
	neral properties of c nan equilibrium, ge	olloidal systems, prepails and emulsions	ration, orgin of	
1 - Class lectures u	٥- اساليب التعليموالتعلم:			
2 - Electronic learn	ing using computer			والتعلم:
The same as no allowed in the	 ٦- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة: 			
				٧ ـ تقويم الطلاب:
7- Student Ass	essment Metho	ods		أ- الأساليب المستخدمة :
Practical exam	To assess	The student practical skills.		
Final exam	to assess	The ability of the student to acquire information and to think.		
Oral exam	to assess	The ability of the student to speaks and discuss.		

Mid-term exam	To as	10 433233		student tal and ntific pro	gress			
Assessment	Schedule							ب- التوقيت :
Assessment	1	Week #f	final e	exam	Wee	k 14		
Assessment	2	Week #	oral e	exam	Week 14			
Assessment	sessment 3 Week #prace		pract	ical	Week 12			
Assessment	sment 4 Week #mid-t exam		erm	Wee	ek 7			
Assessment	5	Week #repor		t	Wee	k 5		
Weighting				1				ج- توزيع الدرجات :
Fina	-Term Ex	kaminatio	n	60%				
Oral	Oral Examination			10%				
Prac	Practical Examination		20%					
Sem	Semester work		0%					
Mid-	Mid-term examination		10%					
Othe	Other types of assessment		0%					
Tota	Total		100%	1				
						:	<u> </u>	ا ٨- قائمة الكتب الدراسية ا
1 - Surface collo	dal and sol	id state cher	nistry					أ- مذكرات:
1 - Physical chen	nistry: BY Fi	ried, Homeka	a, Bluk	is				ب- كتب ملزمة
1- Physical chem	istry: BY At	kines						ج- كتب مقترحة :
								د- دوريات علمية أو نشرات.

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسى

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنیة	مهارات عامة
Acquiring the student with the basic principle of Physical Chemistry., Catalysis, Solid state, and colloids	1,2,3,4	1a	b1	c1	d1
Acquiring the student the general methods for elucidation of Catalysis, Solid state, and colloids	5,6,7,8	2a	b1	c1	d1
Acquiring the student the skills of preparing Colloidal solutions and Catalysts.	9,10,11,12			c1	d1

أستاذ المادة: أ.د./ سهير عبد الحكم ابراهيم شيحه

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