

توصيف مقرر دراسي

١ - بيانات المقرر		
المستوى: الثالث	إسم المقرر: Biological Associations	الرمز الكود Es302
التخصص: علوم البيئة	عدد الوحدات الدراسية: 3	نظري 2
عملي 1	تمارين 1	
<ul style="list-style-type: none"> • Introduce the basic information of biological associations. • Introduce the principles of competition. • Study the methods of predation. • Study the parasitism. • Introduce the basic information of commensalism, mutualism and symbiosis. 	٢ - هدف المقرر:	
٣ - المستهدف من التدريس المقرر:		
<p>a- Knowledge and Understanding : On completing this course, students will be able to:</p> <p>a1- define the basic concepts of biological associations .</p> <p>a2- Identify the different types of parasitism.</p> <p>a3- discriminate the different relations between animals.</p> <p>a4- Distinguish the different ecological factors relating to animal behaviour.</p>	أ - المعلومات والمفاهيم:	
<p>b- Intellectual Skills: On completing this course, students will be able to:</p> <p>b1- Outline the different biological associations.</p> <p>b2- Discuss parasitism.</p> <p>b3- Interpret commensalism, mutualism and symbiosis.</p>	ب- المهارات الذهنية	
<p>c- Professional and Practical Skills: On completing this course, students will be able to:</p> <p>c1- Identify the different relations between animals.</p> <p>c2- Deduce the result of each relation on the surrounding ecosystem.</p> <p>c3- Predict the ecological problems in absence of any relation.</p>	ج- المهارات المهنية الخاصة بالمقرر:	
<p>d- General and Transferable Skills: On completing this course, students will be able to:</p> <p>d1- work effectively both in a team, and independently on solving organic chemistry problems.</p> <p>d2- use IT and search for information.</p> <p>d3- communicate effectively with his teacher and colleagues.</p>	د- المهارات العامة :	
<p>Competition: competitive exclusion principle examples of the two-species competition- strategy of competition- factors of competition- competition in nature- ecological isolating mechanisms-</p> <p>Predation: laboratory studies- field studies- components of predation.</p> <p>Parasitism: definition and characters- social parasitism, Host specificity and complex life cycles.</p> <p>Mutualism,</p> <p>Symbiosis,</p> <p>Cannibalism,</p> <p>Commensalisms, Amensalism</p>	٤ - محتوى المقرر:	
<p>4 - Teaching and Learning Methods</p> <p>4.1 - Lectures.</p>	٥ - اساليب التعليم والتعلم:	

4.2 - Practical training and research in lab. 4.3 - Home work (preparing a report on some topics related to the course). 4.4- Library and online research.				
As normal students.				٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة:
				٧- تقويم الطلاب :
5 - Student Assessment Methods				أ- الأساليب المستخدمة :
5-1.	Final exam	to assess	a1,a2,a3,a4- b1,b2,b3	
5-2.	Oral exam	to assess	a1,a2,a3,a4- b1,b2,b3	
5-3.	Practical exam	to assess	c1,c2,c3	
5-4.	Written projects	to assess	d1,d2,d3	
Assessment Schedule				ب- التوقيت :
Assessment 1	Week	14		
Assessment 2	Week	14		
Assessment 3	Week	13		
Assessment 4	Week	6		
Weighting of Assessments				ج- توزيع الدرجات :
Final-Term Examination		60		
Oral Examination		10		
Practical Examination		20		
Semester work		5		
Other types of assessment		5		
Total		100		
				٨- قائمة الكتب الدراسية والمراجع :
Course notes (available for all students). Issued and authorized by the department				أ- مذكرات:
				ب- كتب ملزمة
				ج- كتب مقترحة :
Different Web sites				د- دوريات علمية أو نشرات..

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
Introduction	1	a1	b1	c1	d1,d3
Competition	2	a1	b1,b3	c2	d2
Predation	3	a1	b1,b3	c3	d1
Parasitism	4,5	a1,a2	b2	c2	d3
Mutualism	6,7	a1,a4	b1,b3	c3	d2
Symbiosis	8	a1,a4	b1,b3	c1	d3

Cannibalism	9	a1,a3	b1,b3	c2	d1
Commensalisms	10,11	a1,4	b1,b3	c3	d2
Amensalism	12	a1,3	b1,b3	c2	d3
Practical course	2-11			c1,c2,c3	d1,d2,d3

رئيس مجلس القسم العلمى: أ.د. هناء على حسن

أستاذ المادة: د. هدى سالم