

توصيف مقرر دراسي

١- بيانات المقرر		
المستوى: الرابع	أسم المقرر: Marine Ecology	الرمز الكودي: Es403
التخصص: علوم البيئة	عدد الوحدات الدراسية: 3	نظري 2 عملي 2

<p>٢- هدف المقرر:</p> <p>For students undertaking this course, the aims are to:</p> <p>1- Introduce the principles of marine ecology and environmental pollution of the Egyptian water.</p> <p>2- Outline the basic information of marine biology, mode of life, characters and the habits of the aquatic animals living in brackish and marine water of Egypt.</p> <p>3- Participate effectively in a multidisciplinary teamwork and be flexible for adaptation, decision making and working under contradictory conditions.</p> <p>4- Understand the life's basic processes in relation to animals and their ecosystems.</p>	
٣- المستهدف من التدريس المقرر:	
<p>أ- المعلومات والمفاهيم:</p> <p>a- Knowledge and Understanding : On completing this course, students will be able to:</p> <p>a.1- Define ecological nature of different marine divisions.</p> <p>a.2- List and differentiate examples for each marine ecosystem.</p> <p>a.3- Acquire and understanding of the pattern of community in the brackish and marine water.</p> <p>a.4- Conclude the relation between the studied topics and the environmental pollution.</p>	
<p>ب- المهارات الذهنية</p> <p>b- Intellectual Skills: On completing this course, students will be able to:</p> <p>b.1- Distinguish more and more population ecology.</p> <p>b.2- Analyze the data obtained from the ecosystem.</p> <p>b.3- Compare the structure of different ecosystems.</p> <p>b.4- Evaluate the animal ecosystem, its conservation, economics and sustainability for animals.</p>	
<p>ج- المهارات المهنية الخاصة بالمقرر:</p> <p>c- Professional and Practical Skills: On completing this course, students will be able to:</p> <p>c.1- Apply preservation and collection of aquatic animals</p> <p>c.2- Compare between different studied species.</p> <p>c.3- Collect, record and analyze data using appropriate techniques in the field and laboratory</p>	

c.4-. Apply field and laboratory investigations of animals in an ethical and responsible manner				
d-General and Transferable Skills: On completing this course, students will be able to: d.1- Work effectively both in a team, and independently. d.2- Communicate effectively with the surrounding ecosystem. d.3- Work in groups effectively; manage time, collaborate and communicate with others positively.				د- المهارات العامة :
<ul style="list-style-type: none"> - Divisions of the Marine Environment - Coral Reefs - Oceans and Coasts - The Effects of Fishing on Marine Ecosystems - Benthic fauna and habitat - The sandy/ rocky beach environment - The estuary environment and the salt marsh community - The mangrove community - Marine Pollution: <ul style="list-style-type: none"> a- Oil Spills b- mineral pollution c- radioactive releases. 				٤- محتوى المقرر:
4 - Teaching and Learning Methods 4.1 - Interactive presentations (lectures with discussion). 4.2 - Practical study. 4.3 - Clinical practice.				٥- أساليب التعليم والتعلم:
As normal students. Only students with skeletal disabilities are allowed to join the program				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,b4	
5-2.	Oral exam	to assess	a1,a2,a3,a4-b1,b2,b3,b4	
5-3.	Practical exam	to assess	c1,c2,c3,c4-	
5-4.	Research article	to assess	a1,a2,a3,a4-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		0		
Other types of assessment		10		
Total		100		

٨- قائمة الكتب الدراسية والمراجع :	
Course notes	أ- مذكرات:
	ب- كتب ملزمة
	ج- كتب مقترحة :
Different web sites of the field of study.	د- دوريات علمية أو نشرات..

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
1- Introduction.	1	a1, a2	b2	c1, c2	d1
2- Divisions of the Marine Environment	2	a1, a2, a3	b1,b2	c2, c3	d1
3- Coral Reefs.	3	a1, a2, a3	b1, b3	c1, c3	d2
4- Oceans and Coasts.	4	a1, a2, a3	b1, b3	c2, c3	d1
5- The Effects of Fishing on Marine Ecosystems.	5	a1, a2, a3	b1, b3	c1,c2	d2
6- Benthic fauna and habitat.	6	a1, a2, a3	b1, b3	c1, c3	d1
7- The sandy/ rocky beach environment.	7	a1, a2, a3	b1, b3	c2, c3	d2
8- The estuary environment and the salt marsh community.	8	a1, a2	b1, b2, b4	c2, c3	d3
9- The mangrove community.	9	a1, a2,a4	b1, b3	c2, c3	-
10- Marine Pollution: a- Oil Spills.	10	a1, a2	b1, b4	c4	d2
11- Marine Pollution: b- mineral pollution.	11	a1, a2, a3	b2, b4	c2, c3	d2
12- Marine Pollution: c- radioactive releases.	12	a1, a2, a3	b1, b4	c1 , c4	d2
Practical according to the course content.	2-11			c1,c2,c3, c4,c5	

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

أستاذ المادة: د./ شريف رمضان عبدالغنى