

توصيف مقرر دراسي

١ - بيانات المقرر		
الرمز الكودي: Es413	أسم المقرر: <b>Fish Farming</b>	المستوى: الرابع
التخصص: علوم البيئة	عدد الوحدات الدراسية: 3	نظري 2    عملي 2    تمارين 0

أ- هدف المقرر:	For students undertaking this course, the aims are to: 1 - Acquire knowledge and awareness of Fish culture. 2 - Know the role of fish culture in the economy. 3 - Explain the different ways in fish culture.
ب- المستهدف من التدريس المقرر:	
أ- المعلومات والمفاهيم:	a- Knowledge and Understanding : On completing this course, students will be able to: a1. Explain the different types of animal culture. a2. Define the different types of fish culture. a3. Identify the role of fish culture in our life. a4. Evaluate the methods of fish culture. a5. Analyze the interaction between the fish and environment. a6. Outline the relationships between animals; species to Community & ecosystem.
ب- المهارات الذهنية	b- Intellectual Skills: On completing this course, students will be able to: b1. Predict the best type of fish culture. b2. Determine the relation between the fish and agriculture. B3. Distinguish the basic roles of animal culture. B4. Differentiate between the types of fish culture.
ج- المهارات المهنية الخاصة بالمقرر:	c-Professional and Practical Skills: On completing this course, students will be able to: c1. Develop information about the relationship of animalculture. c2. Apply education about fish culture. c3. Provide information about different fishes and their environment.
د- المهارات العامة :	d-General and Transferable Skills: On completing this course, students will be able to: d1. Use appropriate interpersonal communication skills. d2. Apply use of electronic library. d3. Develop management and leadership skills.
ت- محتوى المقرر:	Importance of animal and fish culture. Fish as food of high value. Fish culture development. Difference between fish culture, chicken & cow culture. Fish culture in desert: A complete biological cycle- Spring (underground) water, fish pond, water plants 5: 10 % increase in production, chicken or cow culture, waste, fertilizers and biogass.

Fish farms: Locality pond size, intensive and extensive culture supplementary food aeration. Cage culture Cultured fish: Species short cycle herbivore carnivore hybridization, Monosex, Monoculture, Polyculture, Mixed culture:- 1- Fish/ Duck, 2- Fish/ Rice, 3- Alternate fish and Agriculture. Pollution and Diseases				
4 - Teaching and Learning Methods 4.1 - Interactive presentation (lectures with discussion). 4.2 - Search online.				ث- أساليب التعليم والتعلم:
As normal students. Only students with skeletal disabilities are allowed to join the program				ج- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة:
ح- تقويم الطلاب :				
5 - Student Assessment Methods				أ- الأساليب المستخدمة :
5-1.	Final exam	to assess	a1,a2,a3,a4,a5,a6, b1,b2,b3,b4	
5-2.	Oral exam	to assess	a1,a2,a3,a4,a5,a6, b1,b2,b3,b4	
5-3.	Mid-term Exam.	to assess	c1,c2,c3,d1,d2,d3	
Assessment Schedule				ب- التوقيت :
Assessment 1	Week	14		
Assessment 2	Week	14		
Assessment 3	Week	6		
Weighting of Assessments				ج- توزيع الدرجات :
	Final-Term Examination	60		
	Oral Examination	10		
	Practical Examination	20		
	Semester work	10		
	Other types of assessment	0		
	Total	100		
٨- قائمة الكتب الدراسية والمراجع :				
Course notes.				أ- مذكرات:
				ب- كتب ملزمة
				ج- كتب مقترحة :
Different scientific sites related to the field				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	a4,a5	b1,b2	c1	d3
Importance of animal and fish culture	2	a4	b2,b3	c2,c3	d1, d2

Fish culture development.	3	a5	b1,b3	c3	d1, d3
Fish culture in desert	4	a4,a5	b1	c2	d1, d2
Fish farms	5	a6	b4	c1,c3	d1, d3
Cage culture	6	a5	b1, b3	c2,c3	d2, d3
Cultured fish.	7	a5	b1,b2	c1	d1,d3
Monoculture	8	a4,a6	b1,b3	c3	d1
Polyculture	9	a1,a3	B4	c2	d2,d3
Mixed culture	10	a1,a2	B3	c3	d1, d3
Alternate fish and Agriculture	11	a3	B4	c2	d2, d3
Pollution and Diseases.	12	a1,a2	B1	c3	d2

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

أستاذ المادة: د. هبة الله عبدالمجيد