

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty : Science
Name of Department: Department of Biological Sciences

اسم الكلية:
اسم القسم العلمي:

Course Name	Cultivation of Plants in Arid Regions	اسم المقرر
Course No.	0494363	رقم المقرر
No. of Credits	3	عدد الوحدات
Theoretical Hours	2	عدد الساعات النظرية
Practical Hours	3	عدد الساعات المحلية
Course topics		مواضيع المقرر
Text book: (Name, Author , Year , Publisher)		عنوان الكتاب : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
This course explores the key features of desert ecosystems, including their unique soil types and the environmental and biotic challenges they present. It examines how plant growth is influenced by seasonal variations and stress conditions typical of arid environments. The course also covers both <i>in situ</i> and <i>ex situ</i> conservation strategies for desert flora, along with methods for cultivating plants under selected stress conditions, exploring both ecological and physiological mechanisms underlying stress tolerance in plants. Additionally, the course emphasizes monitoring of wild species and assessing the status of species that have escaped from cultivation.		
References: (Name , Author , Year . Publisher)		عنوان المرجع : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
Main reference: Kormondy, E. J. (1995). <i>Concepts of ecology</i> (4th ed.). Pearson Education.		

Prerequisites						متطلبات المقرر
	Exams		16 %			الاختبارات
	Quizzes		6 %			امتحانات قصيرة
	H.W.		8 %			واجبات

Grading	Project (field study)		30 %		مشاريع (دراسة ميدانية)	آلية رصد المقرر
	Final		40 %		الاختبار النهائي	
	100 %					

أهداف مخرجات المقرر :					
الرقم	أهداف مخرجات المقرر :	أمثله من المقرر لتحقيق هذه الأهداف	المستوى المطلوب من عضو هيئة التدريس لتحقيق الهدف :		
			عالي	متوسط	منخفض
1					
2					
3					
4					
5					
الحقول					
المهارات					
منسق المقرر (اسم عضو هيئة التدريس المشرف على توصيف المقرر ، توقيعه ، الختم و الرتبة الأكاديمية)					
تاريخ إعداد النموذج			/ /		

Course objectives					
No.	Course Objectives (Learning Outcomes)	Example(s) of relevant (Topics and activities)	Recommended Level to satisfy the objectives		
			High	Medium	Low
1	Understand desert ecosystems and their environmental challenges.	Topics: Desert climate, soil types, abiotic stress; Activities: Field visits, case studies.	X		
2	Analyze plant adaptations to arid environments.	Topics: Morphological and physiological adaptations; Activities: Lab experiments, discussions.	X		
3	Apply cultivation techniques suitable for arid regions.	Topics: Irrigation methods, soil conservation; Activities: Practical sessions, demonstrations.	X		



4	Explore mechanisms of plant stress tolerance at ecological and physiological levels.	Topics: Drought and salinity tolerance mechanisms; Activities: Research reviews, project work.	X		
5	Develop skills for <i>in situ</i> and <i>ex situ</i> conservation and species monitoring of invasive or escaped plant species in arid areas.	Topics: Conservation strategies, monitoring protocols; Activities: Field surveys, data analysis.	X		
Fields	Ecology, Plant Physiology, Environmental Science, Agriculture				
Skills	Analytical thinking, Fieldwork, Experimental design, Data interpretation.				
Coordinator (Name and Rank) :	Dr. Naemah Al-Mansour				
Signature and stamp :					
Date:	11 \ 11 \ 2025				