

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty : Science

Name of Department: Dep. Of biological sciences

اسم الكلية: العلوم

اسم القسم العلمي: العلوم البيولوجية

Course name	Plant Structure and Function التركيب و الوظيفة للنبات	اسم المقرر
Course No.	0494102	رقم المقرر
No. of Credits	3	عدد الوحدات
Theoretical Hours	2	عدد الساعات النظرية
Practical Hours	3	عدد الساعات العملية
Prerequisites	998890 or 9988161 or equivalent	متطلبات المقرر
Course topics	مواضيع المقرر	

1. Origin, development and the nature of plant science.
2. Tissues and cell types.
3. Roots: Origin, morphology, anatomy, and specialization.
4. Stems: Origin, morphology, anatomy, and specialization.
5. Leaves: Origin, morphology, anatomy, and specialization.
6. Flowers and Fruits
7. Seeds and seed germination. Life cycle of flowering plants.
8. Water relations in plants.
9. Plant growth hormones and plant movements

Text book:
(Name, Author, Year, Publisher)

عنوان الكتاب:
(الاسم، المؤلف، سنة الطبع، دار النشر)

James E. Bidlack & Shelley H. Jansky. 2020. Stern's Introductory Plant Biology. 15th edition
(latest edition). McGraw-Hill Education. USA.

References:

(Name, Author, Year, Publisher)

عنوان المرجع:

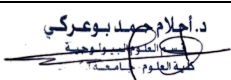
(الاسم، المؤلف، سنة الطبع، دار النشر)

Grading			آلية رصد المقرر	
Exams	20	%		الاختبارات
Quizzes		%		امتحانات قصيرة
H.W.	10	%		واجبات
Lab / Project (field study)	30	%		مختبر / مشاريع (دراسة ميدانية)
Final	40	%		الاختبار النهائي
100%				

أهداف مخرجات المقرر				
المستوى المطلوب من عضو هيئة التدريس لتحقيق الهدف			أهداف مخرجات المقرر	الرقم
منخفض (ن)	متوسط (م)	عالي (ع)		
				1
				2
				3
				4
				5
			منسق المقرر (اسم عضو هيئة التدريس المشرف على توصيف المقرر وتوقيعه)	
			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 the origin and development of	Plant anatomy, plant physiology			✓

	plant science, the nature of plants.				
2	Know the meristems present in plants. Characteristics of meristematic cells.	Apical meristem, lateral meristems	✓		
3	Learn the types of tissues present in the plant, dermal, conducting, and fundamental and their components.	Parenchyma, components of xylem issue		✓	
4	Know the origin, morphology and internal organization of roots. And distinguish the differences among specialized roots.	Root as storage organ		✓	
5	Learn the origin, component, morphology, and anatomy of the shoot system. Distinguish between herbaceous and woody dicots.	Arrangement of tissues in stem, monocot, dicot		✓	
6	Distinguish between herbaceous and woody dicots. Understand the composition of wood and its annual rings.	Primary and secondary tissue and their origins		✓	
7	Learn the origin, external form and anatomy of leaves. Leaf specialization, and leaf abscission in autumn	Leaf tissues and leaf specialization		✓	

8	Know the parts of a typical flower and the function of each part.	Parts and functions of a typical flower		✓	
9	Learn the regions of a fruit and distinguish the different types of fruits.	The regions of a fruit, fruit types		✓	
10	Learn what is dormancy and the factors that control dormancy and how dormancy may be broken.	diagram the life cycle of a flowering plant (gametophytes and sporophyte development), seed dormancy		✓	
11	Understand the water and food transportation in the plant	Diffusion, osmosis, active transport		✓	
12	study the types of plant hormones, plant tropisms.	Auxins, gibberellins and other hormones, plant movement		✓	
Coordinator (Name and Rank):		Dr. Ahlam Bouariky Assistant professor			
Signature:			Date:	9/ 11 /2025	