

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty : Science

اسم الكلية:

Name of Department: Department of Biological Sciences

اسم القسم العلمي:

Course Name	Plant Anatomy	اسم المقرر
Course No.	0494-211	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 provides a comprehensive introduction to plant anatomy, focusing on the structure, organization, and functional adaptations of plant cells and tissues. Topics include cell structure, the nature and composition of the cell wall, and the structure and activity of meristems. Students explore the organization of mature tissues, the primary and secondary structure of leaves, stems, and roots, and structural adaptations of these organs to environmental conditions. The course also covers embryogenesis and specialized secretory structures and their roles in plant physiology. Through a combination of theoretical study and practical observations, students will gain a detailed understanding of plant form, function, and adaptation.		
References: (Name , Author , Year . Publisher)		عنوان المرجع : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
Esau, Katherine. (1977). <i>Anatomy of Seed Plants</i> (2nd ed.). John Wiley & Sons. 1- Dickison, W. C. (2000). <i>Integrative Plant Anatomy</i> (1st ed.). Academic Press. ISBN 978-0-12-215170-5. Beck, C. B. (2005). <i>An Introduction to Plant Structure and Development: Plant Anatomy for the Twenty-First Century</i>. Cambridge UK: Cambridge University Press		

Prerequisites						متطلبات المقرر
	Exams		16 %			الاختبارات
	Quizzes		6 %			امتحانات قصيرة

Grading	H.W.		8 %		واجبات	آلية رصد المقرر
	Project (field study)		30 %		مشاريع (دراسة ميدانية)	
	Final		40 %		الاختبار النهائي	
	100 %					

أهداف مخرجات المقرر :					
الرقم	أهداف مخرجات المقرر :			المستوى المطلوب من عضو هيئة التدريس لتحقيق الهدف :	
	أمثله من المقرر لتحقيق هذه الأهداف			عالي	متوسط
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 the structure and organization of plant cells and tissues	Topics: Cell structure, cell wall, meristems Activities: Microscopy of plant cells and meristematic tissues, labeling diagrams	X		
2	Analyze the primary structure of leaves, stems, and roots	Topics: Primary anatomy of organs Activities: Hand sectioning, slide preparation, diagrammatic representation of tissues	X		
3	Examine structural adaptations of plant	Topics: Adaptations in xerophytes, hydrophytes, and mesophytes	X		

	organs to environmental conditions	Activities: Microscopic observation of secretory glands and trichomes			
4	Understand secondary growth and the formation of secondary tissues	Topics: Cambial activity, secondary xylem and phloem Activities: Slide preparation of secondary tissues, staining and microscopy.	X		
5	Explore specialized secretory structures and their physiological roles	Topics: Glands, resin ducts, laticifers Activities: Microscopic examination, identification, and functional discussion	X		
Fields	Plant Anatomy, Plant Physiology, Botany, Plant Morphology, Agricultural Science				
Skills	Ability to analyze plant cell and tissue structures, perform microscopic examination and sectioning, identify structural adaptations, interpret secondary growth and secretory structures, and apply anatomical knowledge to plant physiology and ecological studies.				
Coordinator (Name and Rank) :	Dr. Naemah Al-Mansour				
Signature and stamp :					
Date:	11 \ 11 \ 2025				