

توصيف مقرر دراسي

١ - بيانات المقرر		
الرمز الكودي: BOT112 Botany (1)	اسم المقرر: Morphology & Systematic	المستوى : الأول (بيولوجي)
التخصص: علوم البيئة	عدد الوحدات الدراسية: ٧ نظري ٣ تمارين ٠ عملي ٤	

٢ - هدف المقرر:		For students undertaking this course, the aims are to: <ol style="list-style-type: none"> 1. Introduce knowledge and understanding about scientific basis of classification schemes and terminology of plants and microorganisms, and the theories and evidence used to derive them. 2. Provide students with knowledge and understanding of the developmental steps of complexity, diversity, characteristics of the kingdoms of living organisms and their economic importance. 3. Gain knowledge and understanding of plant architecture, scientific basis of plant description and the morphology of different types and forms of plants and their modifications. 4. Recognize the different types of seeds and its germination.
٣ - المستهدف من التدريس المقرر:		
أ.المعلومات والمفاهيم:	a- Knowledge and Understanding : On completing this course, students will be able to: a1. Explain the characteristic features of the different groups and classes of plant world. a2. Explain the recent trends of taxonomy of living organisms.. a3. Recognize the different types of seeds and its germination. a4. Acquire knowledge about the morphological features of plant parts and their modifications.	
ب.المهارات الذهنية	b- Intellectual Skills: On completing this course, students will be able to: b1. Differentiate and evaluate the theories of plant classification and be aware of alternative approaches of plant taxonomy. b2. Distinguish the characteristics and evolutionary trends in living organism's classes. b3. Construct several related integrated information to relate plant morphological features and its ecosystem. b4. Analyze and summarize information about seed structure and germination types.	
ج- المهارات المهنية الخاصة بالمقرر:	c-Professional and Practical Skills: On completing this course, students will be able to: c1. Examine, identify and illustrate specimens using light microscopy.	

c2. Identify the reprehensive samples, illustration and referring them to its systematic position.			
c3. Collect record and illustrate plant samples and apply morphological description according to the documented scheme.			
d-General and Transferable Skills: On completing this course, students will be able to:			د- المهارات العامة :
d1. Work effectively in team and communicate with others positively.			
d2. Use the IT (information technology) in preparing scholar researches.			
d3. Exhibit the sense of beauty and neatness.			
d4. Demonstrate autonomy in its learning.			
Systematic Botany Different systems of living organisms classification- Procaryotic and Eucaryotic cells structure Biology of virus Kingdom: Monera – a- Bacteria b- Blue – green algae (cyanobacteria) Kingdom: Protista (algae)- General characters, classification, reproduction and distribution of fungi Kingdom: Fungi - General characters, classification, reproduction and distribution of fungi Kingdom: Planta – a- Bryophyta b- Pteridophyta c- Gymnosperms & Angiosperms Morphology Seeds and germination Morphology and different types of roots Morphology and different types of shoot system (Buds, Stems and Leaves) Flowers - inflorescences			٤- محتوى المقرر:
4 - Teaching and Learning Methods 4.1 - Lectures with discussion.(3hours) 4.2 - Practical 4 hours.			٥- اساليب التعليم والتعلم:
The same as normal students, only skeletal disabilities are allowed in the Faculty of Science.			٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة:
			٧- تقويم الطلاب :
Student Assessment Methods			أ- الأساليب المستخدمة :
Written exam.	to assess	a1, a2 , a3, a4& b1, b , b3,b4	
Oral exam	to assess	b1, b2, b3, 4& a 1, a2,a3, a4,d4	
Practical exam	to assess	c1, c2, c3	
Semester work.	to a sess	a1,a4,a3,b3,b4,c3,d1,d2,d3,d4	
Assessment Schedule			ب- التوقيت :
Assessment 1	Week #	14	

Assessment 2	Week #	14	
Assessment 3	Week #	13	
Assessment 4	Week #	8	
<i>Weighting of Assessments</i>			ج- توزيع الدرجات :
Final-Term Examination	70		
Oral Examination	10		
Practical Examination	20		
Semester work	0		
Other types of assessment	0		
Total	100%		
٨- قائمة الكتب الدراسية والمراجع :			
Notes in plant morphology and Systematic Botany			أ- مذكرات:
			ب- كتب ملزمة
<ul style="list-style-type: none">• B.P.Pandy (2008): Modern practical botany. (S.Chance & Comp. LTD)• K. R. Stern (1994): Introductory Plant Biology ed., Wm. C. Brown Publishers.• Venkateswarlu, V (1982): External morphology of angiosperms. Chand and Company, New Delhi.			ج- كتب مقترحة :
			د- دوريات علمية أو نشرات..

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

المحتويات للمقرر	اسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
<u>Systematic Botany</u>					
Different systems of living organisms classification- Procaryotic and Eucaryotic cells structure	١, ٢	a1,a2	b1	c1,c2	d1
Biology of virus	٣	a2	b1	c1,c2	d1,d4
Kingdom: Monera – a- Bacteria	٤	a1	b1,b2	c1	d1
b- Blue – green algae (cyanobacteria)	٥	a1,a2	b2	,c2	d3,d4
Kingdom: Protista (algae)- General characters, classification, reproduction and distribution of fungi	٦,٧,٨	a1	b1,b2	c1	d1,d4
Kingdom: Fungi - General characters, classification, reproduction and distribution of fungi	٩,10	a1,a2	b1,b2	c2	d1
Kingdom: Planta – a- Bryophyta	11,12	a1,a2	b1	c1,c2	d4
b- Pteridophyta	١3	a2	b1,b2	c1	d3,d4
c- Gymnosperms & Angiosperms	١4	a1	b2	c1,c2	d1,d2
<u>Morphology</u>					
Seeds and germination	١,٢,٣	a3	b3,b4	c3	d1,d2
Morphology and different types of roots	٤,٥,٦,7	a4	b4	c3	d4
Morphology and different types of shoot system (Buds, Stems and Leaves)	٨,٩,١٠,11	a3,a4	b3	c2	d3,d4
Flowers - inflorescences	١٢,13,14	a3,a4	b3,b4	c3	d1,d4

رئيس مجلس القسم العلمي :أ.د./ محمد نجيب حسنين

أستاذ المادة: ا.د. سامي شعبان