



Ministry of Higher Education and
Scientific Research - Iraq
University of AL_mustaqbal
College of Science
Department of Biology



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	PLANT TAXONOMY		Module Delivery
Module Type	CORE		Theory Lecture Lab Tutorial Practical Seminar
Module Code	UOMU0352402		
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	2	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	MSC. Jaafar.hamid.jaafar		e-mail Jaafar.hamid.jaafar@uomus.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor	None	e-mail	None
Peer Reviewer Name		e-mail	
Review Committee Approval	08/06/2023	Version Number	1.0

Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	
Module Aims, Learning Outcomes and Indicative Contents			
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims	The student should be able to:		

أهداف المادة الدراسية	<ol style="list-style-type: none"> 1- Understand the historical development of plant taxonomy 2- Describe, define and understand the basics of taxonomy. 3- Identify taxonomic systems and the basics of development. 4- Knowledge of the phenotypic structure of the vascular plants and the variations that phenotypic characteristics can exhibit. 5- Understand the process of pollination and its types and the means that help in the process of pollination and the relationship of vaccination to evolution.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Identify the formal variation in floral and fruit compositions of higher plants growing around us, and then how to classify these plants in similar groups using the degree of similarity and variation in the development of taxonomic systems to distinguish between plants and distinguish. 2. Details of variance in higher plants based on the difference in the shape and composition of flowers, inflorescences and fruits. 3. Identify the different classification methods and apply some of these methods to different wild and cultivated plant groups. 4. Identify the many plants that surround it and their relationships with each other. 5. How to build a key to diagnose plants at the family level? 6. How to spread plants and mechanisms that help it? 7. Identify the general characteristics of a group of plant families belonging to single or two cotyledons
Indicative Contents المحتويات الإرشادية	Instructional content includes the following: <ol style="list-style-type: none"> 1- Field scientific visits 2- Forming student groups to conduct practical experiments 3- Field research with the subject professor to identify some wild plants and collect them for the herbarium 4- Using modern display methods to simplify models and topics that need wide science fiction, and using video on display screens to clarify scientific films on the subject.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<p>The main strategy to be adopted in delivering this unit is to encourage students</p> <ol style="list-style-type: none"> 1- The student acquires a great knowledge about the plants that grow around him, how to differentiate between them and get him used to arranging them in similar groups. 2- Know the principles used in writing a description of a plant. 3- Knowing how plants are named and why plant names change. 4- How to use references in taxonomy.

	5- The interaction of the student with the scientific material, which is represented in his cooperation in providing plant samples, enables him to understand the differences between plants.
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Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	102	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	98	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to the importance of taxonomy in our daily lives and the objectives of taxonomy
Week 2	The relationship of taxonomy to other sciences - the history of taxonomy
Week 3	General terms -Root and Stem
Week 4	Leaf
Week 5	Supplemented by the leaf, the Bract
Week 6	Reproductive organs - Flower
Week 7	Calyx - Corolla
Week 8	Androecium and Gynoecium

Week 9	Inflorescence
Week 10	Fruit
Week 11	Pollination
Week 12	Reproductive systems
Week 13	Scientific names
Week 14	Study of some families of monocotyledons and dicotyledons
Week 15	Preparatory Week
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: General instructions for laboratory work in taxonomy, how to collect, dry, compress and use diagnostic keys.
Week 2	Lab 2: Root system and types of stems of flowering plants
Week 3	Lab 3: Leaf - petioles, petioles, types of venation
Week 4	Lab 4: Types of top, base and edge of the leaf, the nature of the surface covering of the leaves.
Week 5	Lab 5: Terminology for reproductive organs - bracts and calyx types
Week 6	Lab 6: Types of petals for flowering plants - the male organ of the plant
Week 7	Lab 7: The feminizing system of the plant - the morphology.
Week 8	Lab 8: Inflorescences and floral systems.
Week 9	Lab 9: The fruit and its types
Week 10	Lab 10: A field trip to collect samples (collecting at least twenty-five plant families)
Week 11	Lab 11: Examples of different families are diagnosed in the laboratory and are studied in detail and according to their availability.
Week 12	Lab 12: Examples of different families are diagnosed in the laboratory and are studied in detail and according to their availability.
Week 13	Lab 13: Examples of different families are diagnosed in the laboratory and are studied in detail and according to their availability.
Week 14	Lab 14: Examples of different families are diagnosed in the laboratory and are studied in detail and according to their availability.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	الموسوي, علي حسين (1987) علم التصنيف النبات وزارة التعليم العالي والبحث العلمي جامعة بغداد , العراق.	Yes
Recommended Texts	<ul style="list-style-type: none"> Tod F. Stuessy. (2009). Plant Taxonomy .2nd.ed. Columbia university press, New York. Gurcharan Singh. (2010). Plant Systematics. 3rd.ed. Science Publishers, Enfield, NH, USA 	yes
Websites	<ul style="list-style-type: none"> https://byjus.com/neet/important-notes-of-biology-for-neet-plant-taxonomy/ 	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي