Ministry of Higher Education and Scientific Research - Iraq
University of AL-Mustaqbal
College of Sciences
Department of Biology

MODULE DESCRIPTOR FORM

وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	PLANT GROUPS (ALGAE)	**Module Delivery**	
Module Type	CORE	**Theory** **Lecture** **Lab** **Tutorial** **Practical** **Seminar**	
Module Code	UOMU0601035		
ECTS Credits	4		
SWL (hr/sem)	200		
Module Level	1	**Semester of Delivery**	1
Administering Department	Type Dept. Code	**College**	Type College Code
Module Leader	M.S.C .Zainab Nadom Aziz	**e-mail**	zainab.nadhum.aziz@uomus.edu.iq
Module Leader's Acad. Title		**Module Leader's Qualification**	M.S.C
Module Tutor	None	**e-mail**	None
Peer Reviewer Name		**e-mail**	
Review Committee Approval	17/9/2024	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الاخرى

Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents

اهداف المادة الدراسية ونتائج التعليم

Module Aims اهداف المادة الدراسية	1. Familiarize students with the scientific terminology of algae 2. Study of the classification of algae 3. Studying the relationship of Phycology with other sciences 4. Study the importance of algae to humans 5. A study of the importance of food security and an alternative source of fuel 6. Studying the importance of algae in environmental pollution
Module Learning Outcomes مخرجات تعلم المادة الدراسية	1. Creating a conscious generation capable of distinguishing between higher and lowering plants. 2. Creating a conscious and empowered generation capable of working and innovating in the various sectors of the country. 3. Creating a conscious, empowered generation capable of working and being creative in solving environmental problems and interacting with them. 4. Creating a generation that is aware and able to interact with the dangers of environmental pollution, food shortages, global warming and other global problems of concern to humanity. 5. Creating a conscious generation capable of distinguishing between Algae and others.
Indicative Contents المحتويات الارشادية	1. Knowledge and distinction of scientific terms related to Phycology. 2. Introducing the economic importance of Algae. 3. Introducing the importance of Algaeas environmental markers. 4. Introducing the medicinal importance of the Algae. 5. The importance of the Algae in solving the problems of food shortage in the world. 6. The importance of algae as alternative sources of energy production 7. The correct use of scientific devices and equipment in the Algae laboratory.

Learning and Teaching Strategies

استراتيجيات التعليم والتعلم

Strategies	

	One of the most important strategies that help the student to understand Phycology is linking Phycology with other sciences such as ecology, biotechnology and medical sciences, as well as making scientific field trips and collecting plant samples directly from the environment in which you live, as well as contributing to social and cultural activities such as Campaigns to remove pollution from rivers and cities.

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	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	98	**Unstructured SWL (h/w)** الحمل الدراسي الغير منتظم للطالب	6.5
Total SWL (h/sem) الحمل الدراسي الكلي 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 plant groups
Week 2	Cyanobacteria (Blue-green algae) Part I
Week 3	Cyanobacteria (Blue-green algae) Part II
Week 4	Chlorophyta (Green algae)
Week 5	Euglenophyta
Week 6	Bacillariophyta (Diatoms)
Week 7	Exam
Week 8	Xanthophyta (Yellow-green Algae)
Week 9	Dinoflagellate
Week 10	Charophyta
Week 11	Pheophyta (Brown algae)
Week 12	Radophyta (Red algae)
Week 13	Pheophyta (Brown algae)
Week 14	Colourless algae
Week 15	Economic importance of algae
Week 16	Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Laboratory safety and security guidelines
Week 2	Instructions for the use of scientific equipment
Week 3	Types of microscopes and the correct ways to use them
Week 4	Classification of Cyanobacteria (Blue-green algae) Part I
Week 5	Classification of Cyanobacteria (Blue-green algae) Part II
Week 6	Classification of Chlorophyta (Green algae) Part I
Week 7	Classification of Chlorophyta (Green algae) Part II
Week 8	Classification of Euglenophyta
Week9	Classification of Bacillariophyta (Diatoms)

Week10	Classification of Xanthophyta (Yellow-green Algae)
Week11	Classification of Dinoflagellate
Week12	Classification of Pheophyta (Brown algae)
Week13	Classification of Charophyta
Week14	Classification ofPheophyta (Brown algae)
Week 15	Classification of Radophyta (Red algae)
Week 16	Exam

Learning and Teaching Resources مصادر التدريس		
	Text	**Available in the Library?**
Required Texts	• Charles D. Amsler PLANTS, ALGAE, AND FUNGI: Algal Chemical Ecology, • Laura Barsanti and Paolo Gualtieri Algae Anatomy, Biochemistry, and Biotechnology	Yes
Recommended Texts		No
Websites		

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.