



Ministry of Higher Education and
Scientific Research - Iraq
Al-Mustaqbal University
College Of Sciences
Department of biology



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

| Module Information | | | |
|-----------------------------|-----------------|-------------------------------|--|
| معلومات المادة الدراسية | | | |
| Module Title | GENERAL BOTANY | | Module Delivery |
| Module Type | CORE | | Theory Lecture Lab Tutorial Practical Seminar |
| Module Code | UOMU035221 | | |
| ECTS Credits | 8 | | |
| SWL (hr/sem) | 200 | | |
| Module Level | 1 | Semester of Delivery | |
| Administering Department | Type Dept. Code | College | Type College Code |
| Module Leader | | e-mail | |
| Module Leader's Acad. Title | Professor | Module Leader's Qualification | Ph.D. |
| Module Tutor | None | e-mail | None |
| Peer Reviewer Name | | e-mail | |
| Review Committee Approval | 01/06/2023 | 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 أهداف المادة الدراسية | <ol style="list-style-type: none"> 1. Plants maintain the living environment. Without plants, the concentration of carbon dioxide in the atmosphere would increase to such an extent that humans and other animals would die. 2. Studying and understanding the student of the importance of the plant kingdom and the diversity in it. 3. Studying and knowing the most important distinguishing features of the plant kingdom from other kingdoms. 4. Studying the relationship of the plant kingdom with other organisms. 5. Study the internal anatomy of the plant and the types of tissues that make up the plant body. | | |
| Module Learning Outcomes مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> 1. Knowledge and distinction of scientific terms related to botany. 2. Introducing the economic importance of plants. 3. Introducing the importance of plants in preserving the environment. 4. Introducing the medicinal importance of the plant kingdom. 5. The importance of the plant kingdom in solving the problems of food shortage in the world. | | |
| Indicative Contents المحتويات الإرشادية | <ol style="list-style-type: none"> 1. Teaching the student the basic principles of writing the scientific name of a plants. 2. Know the differences between plant biology and other organisms. 3. Know the taxonomic orders that make up the plant kingdom. 4. The correct use of scientific devices and equipment in the plant laboratory. 5. Knowledge of the internal anatomy of plants and their relationship to environmental conditions. | | |

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

| | |
|-------------------|--|
| Strategies | One of the most important strategies that help the student to understand botany is linking botany 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 plant trees and flowers in the squares and parks. |
|-------------------|--|

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 أسبوعياً | 7 |
| Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل | 98 | Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً | 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 plant kingdom (Plantae) |
| Week 2 | The Plant Cell Part I |
| | The Plant Cell Part II |
| Week 3 | Cell division |
| Week 4 | Plant tissues |
| Week 5 | The Tissue Systems |
| Week 6 | Stem anatomy |
| Week 7 | Exam |
| Week 8 | Root anatomy |
| Week 9 | Leaf Anatomy |
| Week 10 | Types of Vascular Bundles |
| Week 11 | Plant Defense |
| Week 12 | Photosynthesis |
| Week 13 | Respiration |
| Week 14 | Plant pigments |
| Week 15 | Secondary Metabolites |
| 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 | The Plant Cell Part I |
| Week 5 | The Plant Cell Part II |
| Week 6 | Cell division |
| Week 7 | Plant tissues (Part I) |
| Week 8 | Plant tissues (Part II) |

| | |
|---------------|---------------------------|
| Week9 | The Tissue Systems |
| Week10 | Types of Vascular Bundles |
| Week11 | Anatomy of stem |
| Week12 | Anatomy of root |
| Week13 | Anatomy of leaf |
| Week14 | Plants Pigments |
| Week15 | Osmosis |
| Week16 | Exam |

| Learning and Teaching Resources مصادر التعلم والتدريس | | |
|---|---|----------------------------------|
| | Text | Available in the Library? |
| Required Texts | <ul style="list-style-type: none"> • Taiz, L., & Zeiger, E. (2013). Plant Physiology= Fisiologia Vegetal. <i>Collecció Ciències experimentals</i>; 10. • Evert RF. Esau's plant anatomy: meristems, cells, and tissues of the plant body: their structure, function, and development. John Wiley & Sons; 2006 Aug 28. | 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.



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