مركز الاعتماد وضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER

Course Syllabus

1	**Course title**	Plant Biology
2	**Course number**	0304393
3	**Credit hours**	3
	Contact hours (theory, practical)	1
4	**Prerequisites/corequisites**	None
5	**Program title**	BSc of Biological Sciences
6	**Program code**	04
7	**Awarding institution**	University of Jordan
8	**School**	Science
9	**Department**	Biological Sciences
10	**Course level**	2nd Year
11	**Year of study and semester(s)**	Second Semester 2022/2023
12	**Other department(s) involved in teaching the course**	None
13	**Main teaching language**	English
14	**Delivery method**	**X** Face to face learning ☐Blended ☐Fully online
15	**Online platforms(s)**	**X** Moodle ☐Microsoft Teams ☐Skype ☐Zoom ☐Others…
16	**Issuing/Revision Date**	18-4-2023

17 Course Coordinator:

Sawsan Oran , PhD
Office: 106 Biology building
Phone number: 22226
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18 Other instructors:

None

19 Course Description:

The course is designed to deliver the main basics of plant science, the structure of cells for plant cells compared with prokaryotes cell and animal cells, studying plant tissues, organs and systems, classification and diversification of plant kingdom , learning how to propagate and conserve plants, and convey the economic and commercial benefits of plant groups to human and other organisms.

20 Course aims and outcomes:

A- Aims:

This course will enable students to get knowledge about plant structure, organs, anatomy, and diversity of plant groups.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to get knowledge about:

1. Plant life and diversity of plant kingdom
2. The major structures within the root, shoot, leaves, Flowers, seeds, and seedlings of representative monocot and dicot angiosperm plants.
3. The basic processes of plant metabolism, transport, nutrition, growth, and reproduction.
4. Plants relationship to human
5. Identification and classification for unknown plant species using dichotomous keys.
6. Taxonomic resources for plant identification, including dissecting microscope, reference materials, and herbarium collections.
7. The structures, development of embryo at different stages including gametogenesis, fertilization, and implantation.
8. Ecologically and economically importance of plant species and their values.
9. know how to protect and conserve plants.

SLOs / SLOs of the course	SLO (1)	SLO (2)	SLO (3)	SLO (4)	SLO (5)	SLO (6)
1	x				x	
2	x	x	x			x
3	x	x				
4				x		
5				x		
6						x
7			x			
8		x				
9	x					

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21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Introduction						
	1.2	Definition of plant Biology						
	1.3	cells						
2	2.1	Tissues						
	2.2	Roots and soils						
3	3.1	Stems						
	3.2	Leaves						
4	4.1	Flowers, Fruits and Seeds						
	4.2	Plant Breeding and Propagation						
5	5.1	Plant names and classification						
	5.2	Plant names and classification						
	5.3	Classification of the major groups , Cladistics						
6	6.1	Kingdom Protista , phylum(chlorophyta)						
	6.2	Phylum Chromophyta, Xanthophyta, Chrysophyta, Bacillariophyta (Diatoms)						

	6.3	Phylum Phaeophyta, and phylum Rhodophyta.						
7	7.1	Phylum Euglenophyta, and Dinophyta						
	7.2	Phylum Charophyta						
	7.3	Other members of kingdom Protista : phylum Myxomycetes, Phylum Dictyosteliomycetes, and Oomycetes.						
8	8.1	Other members of kingdom Protista : phylum Myxomycetes, Phylum Dictyosteliomycetes, and Oomycetes.						
	8.2	Introduction to plant kingdom Bryophytes (Hepatophytes and Mosses).						
9	9.1	The seedless Vascular Plants: Ferns and their relatives						
10	10.1	phylum Equisetophyta, and phylum polypodiaceae						
11	11.1	Introduction to seed plants : Gymnosperms						
12	12.1	Flowering plants and Civilizations						

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22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Midterm exam theory and practical	30	1-5	1- 5	1-4	
Final exam theory and practical	50	1-12	1-12		
Attendance and presentations	20				

23 Course Requirements

White board mainly and in some cases the data show, internet access.

Botany labs for practical sessions.

Tours at the University to show the available plant groups, also visits to the **Herbarium** and the **green** house to look at the native plants and others.

24 Course Policies:

A- Attendance policies: Regular class attendance is expected, attendance by seating number.

B- Absences from exams and handing in assignments on time: Reporting a valid reason of absence is accepted.

25 References:

Introductory Plant Biology

Fourteneeth Edition by: James E. Bidlackl Shelley H. Jansky

Mc Graw-Hill

26 Additional information:

Name of Course Coordinator: Dr. Sawsan Oran----Signature: --------- Date: 28.2.2023----------

Head of Curriculum Committee/Department: ---------- Signature: ----------

Head of Department: ---------- Signature: ----------
Head of Curriculum Committee/Faculty: ---------- Signature: ----------
Dean: ---------- Signature: ----------