



**The University of Jordan**

**Accreditation & Quality Assurance Center**

# **COURSE Syllabus**

1	Course title	Plant Biology
2	Course number	0324251
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	1
4	Prerequisites/co-requisites	None
5	Program title	Biological Sciences
6	Program code	
7	Awarding institution	University of Jordan
8	Faculty	Science
9	Department	Biology
10	Level of course	B.Sc. degree
11	Year of study and semester (s)	Second Semester 2017/2018
12	Final Qualification	BSc. in Biological Sciences
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	2017/2018

#### 16. Course Coordinator:

Sawsan Oran , PhD  
 Office: 106 Biology building  
 Phone number: 22226  
 Email oransaw@ju.edu.jo

#### 17. Other instructors:

None

#### 18. 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.

#### 19. 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 plant life and diversity of plant kingdom and its relationship to human , also gest to know how to protect and conserve plants and their commercial and economic values .

**20. Topic Outline and Schedule:**

- 1 -Introduction:
  2. Definition of plant Biology
  3. cells
  4. Tissues
  - 5, Roots and soils
  6. Stems
  7. Leaves
  8. Flowers, Fruits and Seeds
  9. **First Hour Exam\**
  - 10 Plant Breeding and Propagation
  11. Plant names and classification
  12. Classification of the major groups , Cladistics
  13. Kingdom Protista , phylum( chlorophyta)
  14. Phylum Chromophyta, Xanthophyta, Chrysophyta, Bacillariophyta (Diatoms)
  15. Phylum Phaeophyta, and phylum Rhodophyta.
  16. Phylum Euglenophyta, and Dinophyta
  17. Phylum Charophyta
  18. Other members of kingdom Protista : phylum Myxomycetes, Phylum Dictyosteliomycetes, and Oomycetes.
  19. Introduction to plant kingdom Bryophytes (Hepatophytes and Mosses).
  - 20 **Second Hour Exam**
  21. The seedless Vascular Plants: Ferns and their relatives
  22. phylum Equisetophyta, and phylum polypodiaceae
  23. Introduction to seed plants : Gymnosperms
  24. Flowering plants and Civilizations
- Marks**
- Midterm exam theory 25
- Midterm practical Exam 10
- Activities (Presentations, term paper..) 15

Subtotal 50

Final Written Exam 35

Final Practical Exam 15

Subtotal 50

Total 100

### 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Interactive lecture using the white board mainly and in some cases the data show .

Office hour discussions

Lab reports

Presentations

Voluntary work at the Herbarium and Botany Labs

### 22. Evaluation Methods and Course Requirements:

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

Short answer questions during the lectures and interaction with the students through involving them in questions and answers related to the different topics of the course of Plant biology.

Exams

Presentations

### 23. 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.

### 24. Required equipment:

Available university services that support achievement in the course:

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

**25. References:**

**Text Book :**

Introductory Plant Biology 2017  
 Fourteenth Edition by: James E. Bidlack| Shelley H. Jansky  
 Mc Graw-Hill

**26. Additional information:**

Name of Course Coordinator: Prof. Dr. Sawsan Oran Signature: ----- Date: 7 Jan  
 2018

Head of curriculum committee/Department: ----- Signature: -----  
 ---

Head of Department: Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Assurance

Copy to:  
 Head of Department  
 Assistant Dean for Quality

Course File