



Jordan University of Science and Technology
Faculty of Agriculture
Plant Production Department

PP202 Principles Of Plant Science

First Semester 2020-2021

Course Catalog

3 Credit Hours. This course is designed to provide students with a working knowledge of the fundamental structures and processes of plants. Principles to be applied cover plant structures, physiology, systematics, and environmental relationship to growth, adaptation, and management of crops.

Text Book

Title	Introductory Plant Biology
Author(s)	Kingsley R. Stern
Edition	12th Edition
Short Name	Ref # 1
Other Information	

Instructor

Name	Dr. Mohammad Al-Gharaibeh
Office Location	M1L2
Office Hours	
Email	mfagharaibeh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue : 08:30 - 10:00
Room: منصة الكترونية

Prerequisites		
Line Number	Course Name	Prerequisite Type
931030	BIO103 General Biology	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	THE IMPORTANCE OF PLANTS IN LIVING WORLD	Chap 1 From Ref # 1
Week 2	STRUCTURE OF HIGHER PLANTS	Chap 5,6,7 & 8 From Ref # 1
Week 3	WHAT IS PLANT BIOLOGY?	Chap 1 From Ref # 1
Week 3	ATTRIBUTES OF LIVING ORGANISMS	Chap 2 From Ref # 1
Week 4	PLANT CELL	Chap 3 From Ref # 1
Weeks 5, 6	PLANT TISSUES	Chap 4 From Ref # 1
Week 7	ROOTS AND SOIL	Chap 5 From Ref # 1
Week 8	STEMS	Chap 6 From Ref # 1
Week 9	LEAVES	Chap 7 From Ref # 1
Weeks 10, 11	FLOWERS, INFLORESCENCES, FRUITS AND SEEDS	Chap 8 From Ref # 1
Week 12	WATER IN PLANTS	chap 9 From Ref # 1
Weeks 13, 14	PLANT METABOLISM (PHOTOSYNTHESIS, RESPIRATION, AND TRANSLOCATION)	Chap 10 From Ref # 1
Week 15	PLANT GROWTH	Chap 11 From Ref # 1
Week 16	PLANT NAMES AND CLASSIFICATION	Chap 16 From Ref # 1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Provide an introductory to the importance of plants in our life. [7PLO1, 3PLO2]	10%	First Exam, Final Exam
Name and describe the structure & ultra structure of plant cells, tissues and organs in relation to plant growth and development. [25PLO1, 25PLO2]	50%	First Exam, Second Exam, Final Exam
Describe and explain the most important metabolic processes in plants and their relation to plant growth and development (Plant metabolic processes). [25PLO2]	25%	Second Exam, Final Exam
Explain the basic principles of nomenclature and classification of plants [5PLO2]	5%	Final Exam

Outline the different challenges plants face in their environments including biological competitors and stresses. [10PLO2]	10%	Final Exam
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Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
32	68					

Evaluation	
Assessment Tool	Weight
First Exam	30%
Second Exam	30%
Final Exam	40%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the department chair
Cheating	Prohibited and in case of cheating the student will be subject to punishment according to the university regulations
Attendance	Up to 20% in accordance with university policy
Participation	Participation is highly encouraged
Withdraw	According to the timeline defined by the university regulations

Date Printed: 2020-11-14