



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

PP323 Floriculture Laboratory

First Semester 2020-2021

Course Catalog

0 Credit Hours. This lab is part of the certified PP 323 Landscape Plants Course. It includes lessons of 3 hours per week for a total of 48 hours per semester. Students will exercise and apply the theoretical information and methods given in the classes on identifying and producing different groups of ornamental plants such as bedding plants, foliage plants, bulbous plants, tubers and cut flowers. Students will practice basic techniques for growing ornamental plants, different propagation methods of foliage plants and learn how to apply plant growth regulators, learn common measurements in greenhouses and how to maintain planting plastic houses.

Instructor

Name	Dr. Mohammad Al Salem
Office Location	M1 L2
Office Hours	
Email	mmalsalem2@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Sun : 14:30 - 17:30
 Room: LAB

Section 2:
 Lecture Time: Tue : 14:30 - 17:30
 Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction: Slide show examples of different ornamental plants categories, bedding Plants, foliage Plants, Bulbous & Tuberous Plants, cut flowers.	
Week 2	Bedding plants: Planting annual, biennial, and perennial bedding plants from seeds. Seed sowing and germination.	

Week 3	Cut flowers: Planting some cut flowers, cultural practice, and production (chrysanthemum, carnation, Rose, Gerbera, Gladiolus, stock, Gypsophila and other?.).	
Week 4	Bulbous plants: Bulb types identifications, Planting some bulbous flowers.	
Week 5	Foliage plants: Identification of foliage plants in the green house.	
Week 6	Field Trip: We will visit greenhouses and nurseries of ornamental plants. Place and time will be announced soon.	
Week 8	Fertilization: Preparation & application of CLF (constant liquid fertilizer)	
Week 9	Transplanting: Transplanting of bedding plant seedlings, manipulation of post-transplanting and growing conditions.	
Week 10	Cultural practices of cut flowers: Performing cultural practices on cut flower crops that were planted in the plastic house	
	Transplanting: Transplanting bedding plants outdoors after acclimation. Soil preparation using different tools	
Week 12	Greenhouse: common Measurements in greenhouses: moisture content, pH, electrical conductivity, and concentration of ammonium and nitrate in the growth medium. measurements of greenhouse temperature, light intensity, and relative humidity.	
Week 13	Plant growth regulators: Application of Plant growth regulators	
Week 14	Final Exam.	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe and identify different bedding, foliage, and bulbous plant species. [4PLO1, 2PLO2, 6PLO3, 3PLO4]	15%	
Explain the basic requirements of bedding plants seeding, irrigation, fertilization transplanting and other cultural practices. [2PLO1, 2PLO3, 2PLO4, 4PLO6]	10%	
Identify, plant and cultural practices of different bulbous plants. [2PLO1, 1PLO2, 5PLO3, 2PLO4]	10%	
Identify, describe, and propagate of different groups of foliage plants. [10PLO3, 4PLO4, 6PLO6]	20%	
Describe the scope of the flower marketing and flower auction through a trip to flower bourse in Amman [3PLO3, 3PLO5, 4PLO6]	10%	
Describe the main cultural practices on cut flower crops. [10PLO3, 5PLO4]	15%	
Explain the main greenhouse measurements. [3PLO1, 2PLO2, 3PLO4, 2PLO7]	10%	
Learn the application of Plant growth regulators. [3PLO2, 3PLO3, 4PLO4]	10%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
11	8	39	23	3	14	2

Evaluation	
Assessment Tool	Weight
Final Exam	10%
Lab Reports	10%

Policy	
General notes	<p>Students must attend all laboratories.</p> <p>Students must wear a lab coat while in the laboratory.</p> <p>The student must actively participate in all work and experiments. You will be also evaluated on your effective participation.</p> <p>Students must submit weekly laboratory reports throughout the semester. Each is worth 10 points. All reports correspond to 10 out of 100 points.</p> <p>There will be a final exam (practical laboratory). The final exam is comprehensive and covers all subjects covered during the semester. The final exam is worth 10 out of 100 points.</p>

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