



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

PP321 Vegetable Crops Production
First Semester 2023-2024

Course Catalog
3 Credit Hours. Production, adaptation, and utilization of vegetable crops. Practical aspects of growing vegetable crops: seedbed preparation, seeding, transplanting, mulching, composting, irrigation, fertilization and other cultural practices utilized in production of vegetable crops.

Text Book	
Title	World Vegetables. Principles, production, and nutritive value.
Author(s)	Rubatzky V. E. and Yamaguchi. M.
Edition	2nd Edition
Short Name	Ref#1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Vegetable Production and Practices	Welbaum G E	1st Edition	
Ref#3	Vegetable Growing Handbook Organic & traditional	Splittstoesser	3rd Edition	

Instructor	
Name	Prof. Ibrahim Makhadmeh
Office Location	C4L2
Office Hours	Sun : 09:45 - 11:30 Mon : 10:30 - 12:00 Tue : 10:00 - 11:30 Wed : 10:30 - 12:00
Email	ibrahimm@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun, Tue : 08:30 - 09:30 Room: C5024

Prerequisites		
Line Number	Course Name	Prerequisite Type
622240	PP224 Plant Physiology	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Introduction, Definition, Economic Importance, Nutritional value, Regions of production and the most common Classification of vegetable crops.	From Ref#1
Week 3	The limiting factors of growing and producing vegetable crops. Infrastructure, Soil, Temperature, Light, Water, Insects, diseases??etc.	From Ref#1
Week 4	Growing structures and specialized equipments. Greenhouses, Plastic houses, Tunnels, cold frame, hotbeds	
Weeks 5, 6	Cultural practices. Purity and germination, bed preparation, soil preparation, transplant and transplanting, hardening, irrigation methods and time.	From Ref#1
Week 7	Cropping Systems. Crop rotation, Intercropping, kind of mulch and row covers, purposes, characteristics and advantage.	From Ref#1
Week 8	Propagation of Vegetable crops	From Ref#1
Week 9	Fertilizers and soil amendments. Methods, times, and rates of application.	From Ref#1
Week 10	8. Growing the most important and economic crops in the following families: origin, taxonomy, botany, cultural requirements, propagation and planting, growth and development, harvest, storage, diseases and pests	From Ref#1
Week 10	a) Cruciferae: cabbage, cauliflower, radish??? b) Leguminosae: fava bean, peas???.. c) Chenopodiaceae: beats, pinach?	From Ref#1
Week 11	d) Amaryllidaceae: onion, garlic, leek??. e) Compositae: lettuce, endive?? f) Umbelliferae:carrots, celery, parsley?..	From Ref#1
Week 12	g) Solanaceae: tomato, pepper, eggplant??. h) Cucurbitaceae: cucumber, squash,??.. i) Malvaceae: okra, j) Graminae: sweet corn	
Week 13	k) Convolvulaceae: sweet potato l) Tiliaceae: jew mallow	From Ref#1
Week 14	m) Liliaceae: asparagus n) Agaricaceae (Mushroom)	From Ref#1

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify the challenges and opportunities facing the vegetable production in Jordan and worldwide. [10PLO1]	10%	
Explain physiological aspects of vegetable crops growth and development. [5PLO2, 10PLO3]	15%	
Assess and modify cultural practices used in the production of vegetable crops, including the integration of soil science, plant physiology, plant nutrition, agrometeorology and crop protection. [5PLO3, 15PLO4]	20%	
Demonstrate proficiency in the cultural and management considerations of successful sustainable vegetable crops production. [5PLO5, 10PLO6]	15%	
Recognize vegetable crops environmental modification and plasticulture systems. [10PLO3, 5PLO6, 5PLO7]	20%	
Appraise successful vegetable crops harvest and marketing. [5PLO1, 5PLO6, 5PLO7]	15%	
Appraise commercial vegetable industry. [5PLO5]	5%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
15	5	25	15	10	20	10

Evaluation	
Assessment Tool	Weight
second Exam	20%
Final Exam	40%
first exam	20%
lab.	20%

Policy	
Grading:	There will be two major class room tests, (will be held on the 6th and 12th week), each test is worth 20 points. Make up tests are more difficult than tests taken at the designated time. The comprehensive final is worth 40 points. Laboratory 20 points (reports 10p, activity 5p, and final exam 5p). Any student not doing solitary efforts in a legitimate manner will be brought to the attention of the dean's office. (Don't Cheat).
Field trip:	Field trips to North and Mid Gohr and to Ramtha Farmers. The dates will be announced during the first week of semester. (this schedule may change according to transportation facilities) we will notifies you!!!!!!

Attendance:	All students are expected to attend every class meeting, scheduled lectures, online activities, and exams on time. Attendance is taken at all lectures. Failure to attend can result in a student being dismissed from the course with a failure score (F) if the absent percentage exceeded 20% of the total number of lectures in the semester. Students who miss any lecture are personally responsible for learning any missed materials or assignments, either from their classmates or from the course eLearning site. Two tardy arrivals will count as one absence.
field work and class participation	Students with disabilities: if you have a disability which requires some special accommodation, please make an appointment within the first week of the semester for a visit to my office to discuss the appropriateness of the instructional methods in the class & lab., or any academic adjustments that you may need.

Date Printed: 2024-01-16