



وصف مقرر انتاج خضر 1

1. Course Name:
Vegetable Production 1
1 Course Code:
VEPR305
2 Term / Year: Annual
First Semester / Three Stage / 2024-2025
3 Date of Preparation of this Description:
1/9/2024
4 Available Attendance Forms:
In-Person + Online
5 Total Credit Hours / Total Units:
2 Theory + 3 Practical / 3.5 Units
6 Course Coordinator Name:
Dr. Ragheed Hamza Mohammed Al-Sultan
Dr. Mohand Aqeel
7 Course Objectives:
<ul style="list-style-type: none"> Enabling the student to understand and comprehend the science of vegetable production and its relationship with other sciences. Enabling the student to learn the most important scientific methods for identifying vegetable production. Enabling the student to grasp the concept of vegetable production. Enabling the student to recognize all types of summer vegetables and all phenomena related to summer vegetable production. The student will be able to explain all life aspects related to the science of summer and winter vegetable production.
Teaching and Learning Strategies:
<ul style="list-style-type: none"> Interactive Lectures Brainstorming Dialogue and Discussion Field Training Practical Exercises Field Project Self-Learning
Course Structure:

Week	Hours	Required Learning Outcomes:	Unit or Topic Name	Learning Method	Assessment Method:
1	Theoretical 1	A1: Recognizes the science of horticulture and lists the main branches of this science. B3: Explains the key factors required for the development of vegetable cultivation and production, which should be researched and studied. A1: Identifies the problems of vegetable production in Iraq.	Definition and Native Regions of Vegetable Plants:	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 1, Final Exam
	Practical 3	Among the most important factors to consider when establishing a vegetable field	The location of vegetable crops	Assignment of tasks	discussion report
2	theoretical	A1: Defines greenhouses and lists their advantages and disadvantages. A1: Defines plastic greenhouses and lists their advantages and disadvantages. B2: Explains the shape, design and orientation of the plastic greenhouse. B2: Explains the shape of the wooden shade, cold beds, and hot beds.		Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 1, Final Exam
	Practical 3	The student identifies how to perform the transplanting process.	Plant nursery	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Direct drawing
3	1 theoretical	B3: Explains the economic importance of vegetable crops. B3: Explains the importance of vegetable crops in terms of nutritional value. C1: Classifies vegetable crops based on botanical classification, relying on the structural and anatomical characteristics of the plants.		Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 1, Final Exam
	Practical 3	The student learns how to create pillars, benches and panels.	Methods of growing vegetable crops	Interactive lecture, brainstorming, dialogue and	Field evaluation

				discussion, field training, practical training, self-directed learning.	
4	1 theoretical	<p>A1: Defines vegetative propagation and lists its advantages. C1: Enumerates methods of vegetative propagation.</p> <p>A1: Defines sexual reproduction and lists the characteristics of good seeds. B3: Explains seed planting methods. A1: Defines transplanting and acclimatization. B3: Explains the changes that occur in seedlings after acclimatization. C1: Enumerates methods of acclimatization.</p>	Reproduction of Vegetable Crops:	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 1, Final Exam, Report
	Practical 3	The student demonstrates how to construct irrigation pipes in the fields.	Irrigation of vegetable crops	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
5	1 theoretical	<p>A1: Defines grafting. A1: Defines thinning. A1: Defines hoeing.</p> <p>B3: Explains the damage caused by not performing hoeing and its benefits for the plant. A1: Defines covering. A1: Lists the benefits of covering. A1: Lists the benefits of export.</p>	Agricultural Operations in Vegetable Crops:	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 1, Final Exam, Report
	Practical 3	The student learns about plants, methods of cultivation, production, and reproduction.	Crusader family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report

6	1 theoretical	<p>A1: Defines fertilizers. B3: Explains the importance of fertilizers to plants. C1: Lists types of fertilizers. A1: Lists the benefits of animal fertilizers. B3: Explains the method of preparing animal fertilizers. A1: Lists the benefits of green manures. B2: Explains the method of using green manures. C1: Classifies chemical fertilizers. B1: Explains the method of fertilizer analysis. C1: Classifies nitrogenous, phosphatic, and potassic fertilizers based on their composition.</p>	Fertilization of Vegetable Crops:	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Quiz, Final Exam
	Practical 3	The student learns about the importance of plants and how to care for them.	Vegetables and how to care for them	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
7	1 theoretical	<p>A1: Lists the main factors that affect the absorption process by the leaves. B3: Explains how factors affect absorption by the leaves. B3: Explains methods for diagnosing the fertilizer needs of vegetable crops.</p>	Methods of Adding Fertilizers:	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 2, Final Exam
	Practical 3	The student learns about the plant, its cultivation and production methods, and the methods of propagation of the garlic family.	Garlic family Onions	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
8	1 theoretical	<p>B3: Explains the effect of irrigation and irrigation intervals on plants. A1: Lists the advantages and disadvantages of irrigation methods. B3: Explains propagation methods in</p>	Irrigation in Vegetable Crops:	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 2, Final Exam

		detail. C1: Enumerates irrigation methods.			
	Practical 3	The student learns about the plant, its cultivation and production methods, and the methods of propagation of the garlic family.	Garlic family Onions	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
9	1 theoretical	B3: Explains the morphological description of crops in the cucurbitaceae family. B3: Explains the methods of propagation, pollination, maturation, and storage.	Cucurbitaceae Family (The Gourd Family)	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 2, Final Exam
	Practical 3	The student learns about plants, methods of cultivation and production, and methods of propagation of the legume family.	The legume family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
10	1 theoretical	B3: Explains the morphological description of crops in the Cucurbitaceae family. B3: Explains the methods of propagation, pollination, maturation, and storage.	Watermelon (Citrullus lanatus)	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Midterm Exam 2
	Practical 3	The student learns about plants, methods of cultivation and production, and methods of propagation of the composite family.	Compound family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report

11	1 theoretical	B3: Explains the morphological description of crops in the Amaryllidaceae family (Narcissus family). B3: Explains the methods of propagation, pollination, maturation, and storage.	Amaryllidaceae Family (Narcissus Family)	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Final Exam
	Practical 3	The student learns about plants, methods of cultivation and production, and methods of propagation of the Asteraceae family.	The Apiaceae family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
12	1 theoretical	B3: Explains the morphological description of crops in the Solanaceae family (Nightshade family). B3: Explains the methods of propagation, pollination, maturation, and storage.	The Solanaceae Family (Nightshade Family)	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Final Exam
	Practical 3	The student learns about the plant, its cultivation and production methods, and the methods of propagating celery.	Celery (Apium graveolens var., D.C., dulce.L.)	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
13	1 theoretical	B3: Explains the morphological description of crops in the Leguminosae family (Legume family). B3: Explains the methods of propagation, pollination, maturation, and storage.	The Leguminosae Family (Legume Family)	Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning	Final Exam
	Practical 3	The student learns about plants, methods of cultivation, production, and methods of propagation of the Asteraceae family.	The saprophytic family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
14	1 theoretical	B3: Explains the morphological description of crops in the Cruciferae family (also known as the Brassicaceae family).	The Cruciferae Family	Interactive Lecture, Brainstorming, Dialogue and	Quiz, Final Exam

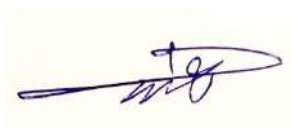
		B3: Explains the methods of propagation, pollination, maturation, and storage.	(Brassicaceae Family)	Discussion, Self-Learning	
	Practical 3	The student learns about plants, methods of cultivation, production, and reproduction.	Boiling	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
15	1 theoretical	Here is the translation for your request: "PowerPoint Presentation on Plants and a Scientific Visit to the Horticulture Station and Private Nurseries."	Here is the translation: "PowerPoint Presentation on Plants and a Scientific Visit to the Horticultural Station and Private Nurseries."	Here is the translation: "Interactive Lecture, Brainstorming, Dialogue and Discussion, Self-Learning."	Scientific Visit.
	Practical 3	The student learns about plants, methods of cultivation, production, and reproduction.	Spinach	Interactive lecture, brainstorming, dialogue and discussion, field training, practical training, self-directed learning.	Midterm Exam 1, Final Exam, Report
1. Course Evaluation."					
ت	"Assessment Methods."	"Assessment Date (Week)."	"Grade."	"Relative Weight %."	
1	"Report 1."	"Week 4."	2.5	2.5	
2	"Report 2."	"Week 5."	2.5	2.5	
3	(1) Quiz		2	2	

		"Week 6."		
4	(2) Quiz	"Week 14."	2	2
5	(3) Quiz	Week 15 ."	1	1
6	"Midterm Exam."	"Week 6."	7.5	7.5
7	"Midterm Exam (2)."	"Week 11."	7.5	7.5
8	"Final Theoretical Exam."	"Final Semester Exam	40	40
9	Writing a report	The fifteenth week	5	5
10	Field practice	Writing a report	2	2
11	(1)Quiz	First week	1	1
12	(2)Quiz	Fourth week	0.5	0.5
13	(3)Quiz	Fourteenth week	1	1
14	Writing a report	Fourteenth week	5.5	5.5
15	Final practical exam	Final semester exams	20	20
	the total	100	%100	%100

2. Learning and teaching resources

Required textbooks (methodology if any)	Vegetable production 1 and 2
Main references (sources)	<p>Hassan, Ahmed Abdel Moneim (2001) Pumpkins: Arab House for Publishing & Distribution – First Edition – Cairo – Arab Republic of Egypt.</p> <p>Matloub, Adnan Nasser (1988) Vegetable Production 2: Dar Al-Kutub Printing and Publishing – University of Mosul – Republic of Iraq.</p> <p>Hassan, Ahmed Abdel Moneim (2003) Potatoes: Arab House for Publishing & Distribution – First Edition – Cairo – Arab Republic of Egypt.</p>

	Hassan, Ahmed Abdel Moneim (2017) Basics of Vegetable Production: A House for Publishing and Distribution – First Edition – Cairo – Arab Republic of Egypt.
Recommended supporting books and references (scientific journals, reports, etc.)	Vegetables production Plant physiology
Electronic references, websites	Ketabpedia.com



Theoretica teacher

Dr. Ragheed Hamza Mohammed



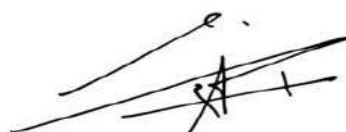
Practical teacher

Dr. Mohand Aqeel



Chairman of the Scientific Committee

Prof. Dr. Jassim Mohammed Alwan



Head of the department

Prof. Dr. Asmaa Muhammad Adel

