







# Horticulture Department course description

#### 1. Course name:

Organic culture

### 2 .Course code:

### ORCU216

2 1. Semester/Year: Annual

Second semester 2024-2025

### 3- The date this description was prepared

## 1/2/2025

#### 3. 1. Available attendance forms:

My presence + electronic

4. Number of study hours (total)/number of units (total:(

## 2theoretical + 3 practical / 3.5

## 5. .1Name of the course administrator (if more than one name is mentioned)

### Prof. Dr. Ayad Hani Al-Alaf

Email: Ayad\_alalaf@uomosul.edu.iq

### Lecturer Dr. Ibtisam Ismail Ahmed

### 6. Course objectives

- Introducing the student to the importance of organic agriculture.
- Learn about the advantages of organic agriculture products.
- · Learn about the benefits of fertilizing with organic fertilizers.
- Identify the harms of adding non-decomposing animal fertilizers.
- Learn about practical methods for making compost.
- Identify the factors that affect the compost manufacturing process.
- Identify the types of organic fertilizers.
- Knowing when to add organic fertilizers.
- Learn how to add organic fertilizers.
- Identify plant extracts and antioxidants and their uses in organic agriculture.
- Identify the importance of biofertilizers.

- Identify the types of biofertilizers.
- Identify the agricultural practices used in organic agriculture (fertilization, biological control, and agricultural rotation).

## Teaching and learning strategies .7

# practical part

- : practical
- .Live lectures with students -1
- .PowerPoint slides -2
- .Field visits to fruit orchards -3

Applying some practical skills in nursery and wooden -4

- ?canopy facilities
- .Dialogues and discussions with students -5
- 6- Assigning tasks and reports

The theoretical part

- :My theory
- .Live lectures with students -1
- .PowerPoint slides -2
- .Introduction pictures -3
- .Audio recordings -4
- .Dialogues and discussion -5
- 6- Assigning tasks and reports

## Course structure .8

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Evaluation	Learning method	Name of the unit	Required learning outcomes	hours	the		
method		or topic			week		
1 Theoretical introduction to organic agriculture. An overview of organic agriculture, its importance and spread in the world and Iraq, and the main elements on which organic agriculture depends. Interactive lecture, brainstorming, dialogue and discussion, and assignment to produce a report. Short exams, assignments, discussions	1 Theoretical introduction to organic agriculture. An overview of organic agriculture, its importance and spread in the world and Iraq, and the main elements on which organic agriculture depends. Interactive lecture, brainstorming, dialogue and discussion, and assignment to produce a report. Short exams, assignments, discussions	1 Theoretical introduction to organic agriculture. An overview of organic agriculture, its importance and spread in the world and Iraq, and the main elements on which organic agriculture depends. Interactive lecture, brainstorming, dialogue and discussion, and assignment to produce a report. Short exams, assignments, discussions	1 Theoretical introduction to organic agriculture. An overview of organic agriculture, its importance and spread in the world and Iraq, and the main elements on which organic agriculture depends. Interactive lecture, brainstorming, dialogue and discussion, and assignment to produce a report.  Short exams, assignments, discussions	Theoretical introduction to organic agriculture. An overview of organic agriculture, its importance and spread in the world and Iraq, nd the main elements on which organic agriculture depends. Interactive lecture, brainstormin g, dialogue and discussion, and assignment to produce a report. Short exams, assignments, discussions	1		
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3 Practical B3: It	3 Practical B3: It is	3 Practical B3: It is	3 Practical B3: It is recommended to add organic fertilizers at	3 Practical	
is recommended	recommended to add organic	recommended to add	the appropriate time.	B3: It is	
to add organic fertilizers at the	fertilizers at the appropriate time.	organic fertilizers at the appropriate time.		recommende d to add	
appropriate	time.	. 10" 2002.		organic	
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1 Theory of	1 Theory of organic matter and	Theory matter	1 Theory of organic matter and humus in agricultural soils	1 Theory of	
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and humus in	Sources of organic matter in	soil Sources of Sources		matter and	
agricultural soils	agricultural soils	ma ter in a had ly rel soils	Security Control of the Control of t	humus in	
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organic matter		Was of the same		soils Sources of	
in agricultural soils				organic	
SOIIS				matter in	
				agricultural	
				soils	4
3 Practical B3:	3 Practical B3: Experiment	3 Practical B3: Experiment	3 Practical B3: Experiment with growing plants in different	3 Practical	•
Experiment with	with growing plants in	with growing plants in	organic growing media	B3:	
growing plants	different organic growing	different organic growing		Experiment	
in different	media	media		with	
organic growing				growing	
media				plants in	
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1 Theoretical	1 Theoretical content of soil	1 Theoretical content of	1 Theoretical content of soil organic matter and its	1	
content of soil	organic matter and its	soil organic matter and its	relationship to fertility Components of organic matter in	Theoretical	
organic matter	relationship to fertility	relationship to fertility	various agricultural soils and their relationship to increasing	content of	
and its		Components of organic		soil organic	
relationship to	in various agricultural soils	matter in various	Interactive lecture, brainstorming, dialogue and discussion,	matter and	
fertility Components of	and their relationship to	agricultural soils and their	field training. Short exams, assignments, discussions	its	
organic matter	increasing fertility and its effect on the growth of	relationship to increasing fertility and its effect on the		relationship to fertility	
in various	horticultural crops Interactive	growth of horticultural		Components	
agricultural soils	lecture, brainstorming,	crops Interactive lecture,		of organic	
and their	dialogue and discussion, field	brainstorming, dialogue		matter in	
relationship to	training. Short exams,	and discussion, field		various	
increasing	assignments, discussions	training. Short exams,		agricultural	
fertility and its		assignments, discussions		soils and	5
effect on the				their	,
growth of				relationship	
horticultural				to increasing	
crops Interactive				fertility and its effect on	
lecture, brainstorming,				the growth	
dialogue and				of	
discussion, field				horticultural	
training. Short				crops	
exams,				Interactive	
assignments,				lecture,	
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				discussion, field training. Short exams,	
				assignments,	
3 Practical C3:	3 Practical C3: Using the	3 Practical C3: Using the	3 Practical C3: Using the appropriate method for making	discussions 3 Practical	
Using the	appropriate method for making	appropriate method for	compost. Identifying the methods of making compost and the	C3: Using	
appropriate	compost. Identifying the	making compost.	factors affecting them. Interactive lecture, brainstorming,	the	
method for	methods of making compost	Identifying the methods of	dialogue and discussion, field training, practical exercises,	appropriate	
making	and the factors affecting them. Interactive lecture,	making compost and the factors affecting them.	self-learning and field assessment	method for	
compost.  Identifying the	brainstorming, dialogue and	factors affecting them. Interactive lecture,		making compost.	
methods of	discussion, field training,	brainstorming, dialogue		Identifying	
making compost	practical exercises, self-	and discussion, field		the methods	
and the factors affecting them.	learning and field assessment	training, practical exercises, self-learning and		of making	
Interactive		field assessment		compost and the factors	
lecture,				affecting	
brainstorming,		158		them.	
dialogue and discussion, field		الزراء العوص التناء		Interactive lecture,	
training,		والغارب		brainstormin	
practical				g, dialogue	
exercises, self-		II and		and	
learning and field assessment		الخسننة		discussion, field	
field assessment		المرافق المساقية		training,	
				practical	
		a d		exercises,	
				self-learning and field	
				assessment	
1 Theoretical	1 Theoretical formation of	1 Theoretical formation of	1 Theoretical formation of humus in agricultural soils, humic	1	
formation of humus in	humus in agricultural soils, humic acids and their natural	humus in agricultural soils, humic acids and their	acids and their natural properties, interactive lecture, brainstorming, dialogue and discussion, field training. Short	Theoretical formation of	
agricultural	properties, interactive lecture,	natural properties,	exams, assignments, discussions	humus in	
soils, humic	brainstorming, dialogue and	interactive lecture,	ξ τ,	agricultural	
acids and their	discussion, field training. Short	brainstorming, dialogue		soils, humic	
natural properties,	exams, assignments, discussions	and discussion, field training. Short exams,		acids and their natural	
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lecture,				interactive	
brainstorming,				lecture,	
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3 Practical B4: Experiment with	3 Practical B4: Experiment with making compost.	3 Practical B4: Experiment with making compost.	3 Practical B4: Experiment with making compost. Practical steps for making compost. Interactive lecture, dialogue and	3 Practical B4:	
making	Practical steps for making	Practical steps for making	discussion, field training, practical exercises, self-learning	Experiment	
compost.	compost. Interactive lecture,	compost. Interactive	and field assessment	with making	
Practical steps	dialogue and discussion, field	lecture, dialogue and discussion, field training,		compost.	
for making compost.	training, practical exercises, self-learning and field	practical exercises, self-		Practical steps for	
Interactive	assessment	learning and field		making	
lecture, dialogue		assessment		compost.	
and discussion, field training,				Interactive lecture,	
practical				dialogue and	
exercises, self-				discussion,	
learning and				field	
field assessment				training, practical	
				exercises,	
				self-learning	

The benefits of humic acids for plants and soil The most important benefits that humus provides for horticultural plants and agricultural soils Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning Short exams, assignments, discussions  3 Practical C3: 8 Works on developing plans and programs to developing the field of organic agriculture. Visiting postgraduate students' research, and scientific research carried out using organic fertilizers, interactive lecture,	1 Theoretical The benefits of humic acids for plants and soil The most important benefits that humus provides for horticultural plants and agricultural soils Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning Short exams, assignments, discussions	1 Theoretical The benefits of humic acids for plants and soil The most important benefits that humus provides for horticultural plants and agricultural soils Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning Short exams, assignments, discussions	Theoretical The benefits of humic acids for plants and soil     The most important benefits that humus provides for horticultural plants and agricultural soils Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning Short exams, assignments, discussions	and field assessment  I Theoretical The benefits of humic acids for plants and soil The most important benefits that humus	
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brainstorming, dialogue and discussion, field training, self- learning, field project, assignment of tasks to report on what you learned during the visit.	3 Practical C3: Works on developing plans and programs to develop work in the field of organic agriculture. Visiting postgraduate students' research, and scientific research carried out using organic fertilizers, interactive lecture, brainstorming, dialogue and discussion, field training, self-learning, field project, assignment of tasks to report on what you learned during the visit.	3 Practical C3: Works on developing plans and programs to develop work in the field of organic agriculture. Visiting postgraduate students' research, and scientific research carried out using organic fertilizers, interactive lecture, brainstorming, dialogue and discussion, field training, self-learning, field project, assignment of tasks to report on what you learned during the visit.	3 Practical C3: Works on developing plans and programs to develop work in the field of organic agriculture. Visiting postgraduate students' research, and scientific research carried out using organic fertilizers, interactive lecture, brainstorming, dialogue and discussion, field training, self-learning, field project, assignment of tasks to report on what you learned during the visit.	self-learning Short exams, assignments, discussions  3 Practical C3: Works on developing plans and programs to develop work in the field of organic agriculture. Visiting postgraduate students' research, and scientific research carried out using organic fertilizers, interactive lecture, brainstormin g, dialogue and discussion, field training, self- learning, field project, assignment of tasks to report on what you learned during the visit.	7

organic fertilizers and soil conditioners, types of organic fertilizers added to agricultural soils, interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions	fertilizers and soil conditioners, types of organic fertilizers added to agricultural soils, interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions	fertilizers and soil conditioners, types of organic fertilizers added to agricultural soils, interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions	of organic fertilizers added to agricultural soils, interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions	Theoretical organic fertilizers and soil conditioners, types of organic fertilizers added to agricultural soils, interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments,	
				discussions	
3 Practical C2: Explains the most important plant extracts used in organic agriculture.	3 Practical C2: Explains the most important plant extracts used in organic agriculture.	3 Practical C2: Explains the most important plant extracts used in organic agriculture.	3 Practical C2: Explains the most important plant extracts used in organic agriculture.	3 Practical C2: Explains the most important plant extracts used in organic agriculture.	
1 Theoretical Methods and dates for adding organic fertilizers. The dates for adding organic fertilizers and the most important methods of addition are discussed. Interactive lecture, dialogue and discussion, field training, practical exercises, self- learning, short exams, assignments, and discussions.	1 Theoretical Methods and dates for adding organic fertilizers. The dates for adding organic fertilizers and the most important methods of addition are discussed. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.	1 Theoretical Methods and dates for adding organic fertilizers. The dates for adding organic fertilizers and the most important methods of addition are discussed. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.	1 Theoretical Methods and dates for adding organic fertilizers. The dates for adding organic fertilizers and the most important methods of addition are discussed. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.	Theoretical Methods and dates for adding organic fertilizers. The dates for adding organic fertilizers and the most important methods of addition are discussed. Interactive lecture, dialogue and discussion, field training, practical exercises, self- learning, short exams, assignments, and discussions.	9
3 Practical C2: Write a report on the compost industry.	3 Practical C2: Write a report on the compost industry.	3 Practical C2: Write a report on the compost industry.	3 Practical C2: Write a report on the compost industry.	3 Practical C2: Write a report on the compost industry.	
1 theoretical organic fertilizer (compost)	1 theoretical organic fertilizer (compost)	1 theoretical organic fertilizer (compost)	1 theoretical organic fertilizer (compost)	1 theoretical organic fertilizer (compost)	10

Its composition and the main purpose of its production	Its composition and the main purpose of its production	Its composition and the main purpose of its production	Its composition and the main purpose of its production	Its composition and the main purpose of its production	
1 Theory of fertilizers and biofertilizers and biofertilization. Identifying the importance of biofertilizers, its types, benefits, and the characteristics of the organism present in the biofertilizer. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.		1 Theory of fertilizers and biofertilization. Identifying the importance of biofertilizers, its types, benefits, and the characteristics of the organism present in the biofertilizer. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.	1 Theory of fertilizers and biofertilization. Identifying the importance of biofertilizers, its types, benefits, and the characteristics of the organism present in the biofertilizer. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.	I Theory of fertilizers and biofertilizers and biofertilizati on. Identifying the importance of biofertilizers, its types, benefits, and the characteristi cs of the organism present in the biofertilizer. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, and discussions.	11
3 Practical C3:     Producing horticultural crops using organic fertilizers.  Monitoring the cultivation of plants in pots to evaluate the effect of fertilizers on them. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical C3: Producing horticultural crops using organic fertilizers. Monitoring the cultivation of plants in pots to evaluate the effect of fertilizers on them. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical C3: Producing horticultural crops using organic fertilizers. Monitoring the cultivation of plants in pots to evaluate the effect of fertilizers on them. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical C3: Producing horticultural crops using organic fertilizers. Monitoring the cultivation of plants in pots to evaluate the effect of fertilizers on them. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical C3: Producing horticultural crops using organic fertilizers. Monitoring the cultivation of plants in pots to evaluate the effect of fertilizers on them. Interactive lecture, brainstormin g, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	
1 Theoretical plant extracts and antioxidants	1 Theoretical plant extracts and antioxidants	1 Theoretical plant extracts and antioxidants	1 Theoretical plant extracts and antioxidants	Theoretical plant	12

				extracts and antioxidants	
Its types, importance, and mechanism of operation: Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	Its types, importance, and mechanism of operation: Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	Its types, importance, and mechanism of operation: Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	Its types, importance, and mechanism of operation: Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	Its types, importance, and mechanism of operation: Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	
1 Theoretical extracts of plants, herbs and marine algae	1 Theoretical extracts of plants, herbs and marine algae	1 The retical extracts of plants, 2.75s and marine algae	1 Theoretical extracts of plants, herbs and marine algae	Theoretical extracts of plants, herbs and marine algae	
3 Practical B2:    Successfully plan to develop, improve and increase the production of    horticultural crops using    organic    agriculture. Follow up on the results of the    potting experiment and discuss the    results.    Interactive    lecture,    brainstorming, dialogue and discussion, field    training,    practical exercises, self- learning and field evaluation.	3 Practical B2: Successfully plan to develop, improve and increase the production of horticultural crops using organic agriculture. Follow up on the results of the potting experiment and discuss the results. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical B2: Successfully plan to develop, improve and increase the production of horticultural crops using organic agriculture. Follow up on the results of the potting experiment and discuss the results. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical B2: Successfully plan to develop, improve and increase the production of horticultural crops using organic agriculture. Follow up on the results of the potting experiment and discuss the results. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	3 Practical B2: Successfully plan to develop, improve and increase the production of horticultural crops using organic agriculture. Follow up on the results of the potting experiment and discuss the results. Interactive lecture, brainstormin g, dialogue and discussion, field training, practical exercises, self-learning and field evaluation.	13
1 Theory of amino acids, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field training, practical exercises, self-	1 Theory of amino acids, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	1 Theory of amino acids, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	Theory of amino acids, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.	1 Theory of amino acids, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field	14

	3 Practical C2: Know and discuss topics related to organic farming.		ctical C2: Know and s topics related to organic farming.	3 Practical C2: Know and	discuss topics related to organic farming.	training, practical exercises, self- learning, short exams, assignments, discussions. 3 Practical C2: Know and discuss topics related to organic	
Vitamins, their types, importance, and mechanisms of action.  Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.  3 Practical D1: Acquiring the communication skills necessary to deal with confidence and certainty at the	1 Theoretical: Vitamins, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field training, practical exercises, self-learning, short exams, assignments, discussions.  3 Practical D1: Acquiring the communication skills necessary to deal with confidence and certainty at the individual and group levels	their ty mecha Interac and trainin exercis short		mechanisms of action. Inte discussion, field training, pr short e	their types, importance, and tractive lecture, dialogue and actical exercises, self-learning, xams, assignments, discussions.  communication skills necessary certainty at the individual and group levels	farming.  1 Theoretical: Vitamins, their types, importance, and mechanisms of action. Interactive lecture, dialogue and discussion, field training, practical exercises, self- learning, short exams, assignments, discussions.  3 Practical D1: Acquiring the communicati on skills necessary to	15
individual and group levels						deal with confidence and certainty at the individual and group levels	
						valuation	
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% 10	Theoretical: 5	•		eoretical: 2-15  B. Daily written e.		xams	2
% 15	Practical: 5 Theoretical: 1	0		cical: 2 - 15 retical: 7-13	C. 2 semester exams during the		3
,, 13	Practical: 15			rical: 6 - 14	semester for each		J
% 10	Theoretical: 7 Practical: 3	7	Theo	oretical: 15 ctical: 15	Practical and theore	etical	4

% 40 % 20	Theoretical: 40 Practical: 20	Theoretical: Practical:	D . Assigning students to prepare reports on topics	5			
% 100	100		the study.	6			
	Learning and teaching resources .10						
ganic agricul	ture and the enviro	Required textbooks (methodology	y, if any)				
	Mohammed Alwan						
			Main references (	(sources)			
			Recommended supporting books and re (scientific journals, re				
	Re	eports, bulletins and studies	Electronic references, Inter	rnet sites			

Practical subject teacher ecturer Dr. Ibtisam Ismail Ahmed Theoretical subject was

Prof. Dr. Ayad Rani & -- Anaf

Chairman of the Scientific Committee

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Prof. Dr. Jassim Mohammed Alwan

Prof. Dr. Asmaa Muhammad Adel