Course Description Form

1. Course Name:

Fruit production

2. Course Code

FRPR208

3. Semester / Year:

First semester/ second stage 2025-2024

4. Description Preparation Date:

1/9/2024

5. Available Attendance Forms:

Attending

6. Number of Credit Hours (Total) / Number of Units (Total)

2 Theoretical + 3 Practical / 3.5

Course administrator's name (mention all, if more than one name)

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8. Course Objectives

- The learner should be able to determine the needs of fruit trees from environmental conditions
- The student learns about the stages of growth and maturity that fruits go through
- Familiarity with different cultivation systems for fruit trees
- · Familiarity with all horticultural service operations to sustain fruit orchards
- Understanding the basics of tree development and fertilization to obtain ideal trees and fruits
- Distinguishing between types of trees according to the nature of their growth
- Familiarity with the information the farmer needs to establish and plan fruit orchards
- The student's awareness of all methods of propagating fruit trees and the advantages and disadvantages of each of them
- · Determine the appropriate type of
- Finding solutions to many of the problems faced by producers of fruit trees and fruit orchards
- A comprehensive study of the needs of the different types of deciduous and evergreen fruit trees and how to preserve them and determine the controls and conditions that must be observed when sustaining them for the longest possible period

9. Teaching and Learning Strategies

- Interactive lecture
- Brainstorming
- Dialogue and discussion
- Field Training
- Practical exercises
- Field project
- Self-education

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2 Theoretical 3 Practical	theoretical: A1: The student is introduced to fruit science and the divisions of fruit trees A2: The student learns about the environmental conditions necessary for the growth of fruit trees, fruit science and the appropriate environmental conditions for fruit trees practical: C3: Uses the information the student needs and what is available to him to master his work	appropriate environmental conditions for fruit trees practical: Identifying the practical concepts of fruit science	Interactive lecture, brainstorming, dialogue and discussion, short test, written test, and assignment of an assignment. practical: Assigning practical tasks and reports	Short exams, assignments, discussions
	3 practical	Theoretical: A2: The student is familiar with the types of soil and soil suitable for growing fruit trees oractical: C3:Uses the information the	theoretical: Establishing and planning the orchard practical: How to identify fruit	Theoretical: Live lectures, PowerPoint slides, introductory images, direct dialogues and discussion	Short exams, assignments discussions
	s i n	student needs and what s available to him to naster his work he tudent learns about	trees and distinguish between them (varieties, order, family, etc.)	practical: Assigning practical tasks	

3	2 Than	fertilizer and its ty	pes	and reports	- 61
,	2 Theor	theoretical:	theoretical:	Theoretical:	
	3 practi	studellt	Systems and dates	101 12	ures, exams,
		identifies the types	of planting fruit trees	PowerPoint	assignme
		orchards and the	Production of the state of the	slides,	discussion
		conditions for		introductory	
		establishing them		images, di	rect
		B1: Choose the		dialogues	and
		appropriate farming	2	discussion	
		system for each typ	e		
		of fruit			
		B1: Calculates the			
		amount of trees nee			
		to plant any orchard			
		C1: Names all fr	uits		
	1 2 2	by their Engl		practical:	
		scientific, and fam	ily How to practice choosing	71331811115	
	7 3 17 5 3	names.	a site to establish a	practical tas	ks
		practical:	orchard	and reports	
		Uses the information	1		
		the student needs and	1		
		what is available to			
		him to master his wo	rk		
		C4: Draws up plans	The Addinguish	=	
		and programs for			
		development in the field of fruit			
		production in accordance with the			The state of the s
		requirements of the			
- 1		environment and			
		society			
		D1: Acquiring th	0		
		communication skill	1		
		necessary to deal with			
		confidence and	. 4		
		certainty at the			
		individual and group	1		
		levels			
	and the code of the second			To the second se	
		Theoretical	theoretical:	Theoretical:	Short
13	practical	A2: The student is	Sexual and vegetative	Live lectures,	exams,
		familiar with pruning	reproduction have their	PowerPoint	assignments,
		and breeding methods. A2: The student	advantages and	slides,	discussions
		explains the methods	disadvantages.	introductory	
		of sexual and		images, direct	
1		vegetative		dialogues and	
		reproduction.		discussion	
		reproduction,			
		practical:		practical: Assigning	
		C2 U		practical tasks	
		C3: Uses the		and reports	
1		information the			Total Control
	The Later of	student needs and what			Principle of the Control of the Cont
	AND THE WAR	is available to him to			2

The same derivative of the same of the sam		necessary to deal with confidence and certainty at the individual and group levels.	RAPP The recognition and appropriate and appro		
		C4: Draws up plans and programs for development in the field of fruit production in accordance with the requirements of the environment and society. D1: Acquiring the communication skills			
	2 Theorems 3 practical	successful propagation methods for the fruit species at theoretical: A3: It solves the problems of difficulty in growing some fruits B4: Recommend any successful propagation methods for the fruit species practical: C3: Uses the information the student needs and what is available to him to master his work	theoretical: How to overcome the problems of fruit tree propagation practical: Practical steps for planning the orchard land.	Theoretical: Live lectures, PowerPoint slides, introductory images, direct dialogues and discussion practical: Assigning practical tasks and reports	Short exams, assignments, discussions
		production in accordance with the requirements of the environment and society. C5: Successfully balances the investment and use of fruit plants and uses them appropriately for the region in which they are grown A3: It solves the problems of difficulty in growing some finits B4: Recommend, any			
		master his work C4. Draws up plans and programs for development in the field of fruit	practical: Identify the appropriate environmental conditions for growing finit trees		

	3 practic	eal B4: Suggests the	I David Coult to	ees. Live lectu	res, exams,
		ouggests the	Fertilizing fruit tre	003,	assignme
		method and type of			discussion
		fertilizer added to the	he adding them	slides,	uiscussion
		type of fruit		introductory	
		B4: Determines the			ect
		nutrient deficiency	of	dialogues .	and
		the type of fruit		discussion	
			practical:		
		practical:	Drawing the agricultur	ral	
		C2: Creates new	systems of the orchard.		
		systems for types of	systems of the ordinard.	practical:	
		orchards by hand,	×	Assigning	
14.	- C	using modern		practical tas	ke
				and reports	K3
s se nd		computer application	S,	and reports	
		and with the ability to)		
		select plants accordin	ıg		
		to the prevailing			
		climatic conditions.			1
		C3: Uses the			
		information the	1		
		student needs and wha	at		
		is available to him to	1		
		master his work			
		C4: Draws up plans			
		and programs for			
		development in the			
		field of fruit			
		production in			
1		accordance with the			
		requirements of the			
		environment and	4 1	- 1	
		society			
1		C5: Successfully	1		1
1		balances the			
		investment and use of	1		
		fruit plants and uses			
		them appropriately for	1		
		the region in which	1		Page 1
		they are grown.			
2	Theoretical		theoretical:	Theoretical:	CL
1	practical	A2: The student is	Apples, origin and	The state of the s	Short
		familiar with the	original habitat:	,	exams,
		nature of growth and	environmental conditions	PowerPoint	assignments,
		environmental needs	and assets	slides,	discussions
			and assets used, service	introductory	
	3/45/15	of apple trees.	operations, cultivation,	images, direct	
		A2: The student is	flowering, pollination,	dialogues and	
		familiar with the most	maturity, and control.	discussion	
		important principles of			
1		apple trees.		practical:	
		A2: The student is			
	in English by	familiar with the		Assigning	
		methods of planting		practical tasks	
		and caring for apple	1	and reports	
1		trees.			
		A2: The student is			
		familiar with methods			
		amina with methods			

		familiar with the nature of growth and environmental needs of olive trees practical: C3: Uses the information the student needs and what is available to him to	original habitat: environmental conditions practical: Practical steps for pruning fruit trees	PowerPoint slides, introductory images, direct dialogues and discussion practical: Assigning practical tasks and reports	assignments, discussions
8	2 Theoretical 3 practical	C3: Uses the information the student needs and what is available to him to master his work C4: Draws up plans and programs for development in the field of fruit production in accordance with the requirements of the environment and society C5: Successfully balances the investment and use of fruit plants and uses them appropriately for the region in which they are grown D1: Acquiring the communication skills necessary to deal with confidence and certainty at the individual and group levels. Theoretical A2: The student is	theoretical: Olives, origin and	Theoretical: Live lectures,	Short exams,
		of setting and breaking fruit seeds and horticultural service operations practical: C2: Creates new systems for types of orchards by hand, using modern computer applications, and with the ability to select plants according to the prevailing climatic conditions.	d practical: A scientific visit to or of the private orchard focusing on agriculture systems.	S,	

					manufacture of the same party of the same of
		Tweeters!			
		master his work			
		C5: Success	fully		
		balances	the		
		investment and us	se of		
		the pruning pro			
		and employs it i			
		way that is compar			
		with the processes	1		
		crop production	and		
		tree coordination.		Theoretical	Short
)	2 Theoretic	al theoretical:	theoretical:	1	tures, exams,
	3 practical	A2: The student		ervice Dive	
		familiar with meth	ods operations, cultiv	ration, PowerPoint	discussion
		of setting and break		nation slides,	1
				introductory	
		dormancy for fi		images, d	irect
		seeds and horticultu		dialogues	and
		service operations	for	discussion	
		olives		discussion	A STATE OF THE STA
			practical:		
			Practical steps for ra	ising	
		practical:	fruit trees	practical:	
		C2: He creates new		Assigning	
		systems for types of	1 1 2	practical ta	sks
		orchards by hand,		and reports	
		using modern			
		computer applications			
		and with the ability to			
		select plants according	g		
		to the prevailing			
		climatic conditions.			
		C3: Uses the			
		information the			
		student needs and wha	t		
		is available to him to			
		master his work			1
		A2: It determines the			
		types of fruit trees to			
		be raised, the different			
		breeding methods, and			
		their economic and			
		environmental			
		Treatment of the contract of t			
		importance C5: Successfully	1 1 1 1 1		
	1		I I I I I I I I I I I I I I I I I I I	Wall 1 4	
		balances the			
	1	investment and use of			
		the pruning process			
ly.		and employs it in a			
		way that is compatible			
MT I		with the processes of			
1		rop production and			
	t	ree coordination			
	2 Theoretical 7	heoretical:	theoretical:	Theoretical:	Chart
7		2: The student is	Peaches, origin and		Short
		amiliar with the	original habitat:	Live lectures, PowerPoint	exams,
	n		environmental conditions	slides,	assignments,
1		nvironmental needs	conditions	introductory	discussions
1	A THE RESERVE AND ADDRESS OF THE PARTY OF TH				

11 2 Theoretical that a very continuous process of the continuous proc	lormancy for fruit eeds and horticultural ervice operations for eaches practical: 2: Determines the ethod of vegetative ropagation of fruit ees 3: Uses the formation the udent needs and what available to him to easter his work	theoretical: Peaches, service operations, cultivation, flowering, pollination, ripening, and control practical: Practical steps for vegetative propagation of fruit trees	Theoretical: Live lectures, PowerPoint slides, introductory images, direct dialogues and discussion practical: Assigning practical tasks and reports	Short exams, assignments, discussions
12 2 Theoretical the	eoretical: th	heoretical: Comegranate, origin and	Theoretical: Live lectures,	Short exams,

	T	production processes.		· · · · · · · · ·	Short
14	2 Theoretica 3 practicals	theoretical: A2: The student i familiar with the nature of growth and environmental needs of pear trees	e cultivation, flowering pollination, ripening, and	, Towers	exams, assignment discussions
		practical: C3: Uses the information the student needs and what is available to him to master his work C4: Draws up plans and programs for development in the field of olive tree cultivation in accordance with the requirements of the environment, society, and economic resources C5: Successfully balances the investment and use of olive trees and their employment in a way that is compatible with coordination and production processes D2: Dealing with modern technology efficiently that enables him to accomplish his scientific and practical	practical: Practical steps for olive cultivation	practical: Assigning practical tasks and reports	
	Theoretical practical	Theoretical Solve the problem practical: The student learns the most important Types of plant environments through	theoretical: A scientific visit to a nearby site and submit a report on the most important processes in plant environments practical: Writing a report on the most important	Live lectures, PowerPoint	Short exams, assignments discussions
	ourse Evalu	A scientific visit to one of the nvironmental sites.	propagated plants and horticultural operations carried out in the nursery.	Assigning practical tasks and reports	
aluatio	n Methods	Evaluation d	late Degree	Percentage (%)	

Daily spoken	Theoretical: 2-15 Practical: 2 - 15	Theoretical 3 Practical 2	5%	
examination Daily written exams	Theoretical: 2-15 Practical: 2 - 15	Theoretical 5 Practical 5	10%	
2 semester exams during the semester for both practical and theoretical	Theoretical: 7-13 Practical: 6 – 14	Theoretical 10 Practical 5	15%	
Assigning students to prepare reports on study topics	Theoretical: 15 Practical: 15	Theoretical 7 Practical 3	10%	
Final exam	Theoretical Practical	Theoretical 40 Practical 20	40% 20%	
Total		100	100%	
12. Learning and Te	aching Resources			
Required textbooks (curricu		1- Production c	of evergreen fruits. Dr. Jawad	
		Thanoun Agh	na	
			ruit technology (2017). Prof.	
		Dr. Jassim Mohammed Alwan		
Main references (sources)				
Recommended books and	references (scientific	1- Mesopotamia	Agriculture Journal	

FAO reports, bulletins and studies

The state of the s

Theoretical lecturer:Dr. Yusra Mohammed Saleh

Practical lecturer : Nagham Salah Salem

journals, reports...)

Electronic References, Websites

co or

Chairperson of the Scientific Committee

Prof. Dr. ahmed awad talb

Head of Day

Head of Department

Assist. Prof. Dr. Talal Saeed Hameed

