Course Description Form

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3.	Semester /	Vear			
	and the second s	t stage/2023-2024			
4.		Preparation Date;			
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5.	Available	Attendance Forms:			
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6.	Number of	Credit Hours (Total) / Number of	Units (Total)		
	Theoretica	2 + 3 practical/3.5 units	3		
7.	Course adr	ninistrator's name (mention all, if n			
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	3 practical	a1: Define the science of horticulture a5: Distinguish the most important branches of	Horticultural foundations	Practical assignment	Short exams Assignment of duty discussions	
2	2 Theoreti	horticulture	Reasons for the	With tasks And report		
-		a4: It has the ability to compare summer and winter vegetable crops c1: It has the ability to divide vegetable crops according to the growth period	development of vegetable cultivation in Iraq and examples of vegetables Dividing vegetable crops	auditory methods, Writing style on the blackboard Dialogue style Direct slides Power Point	Short exams Assignment of duty discussions	
	3 practical	a1: Mention the general characteristics that must be present in the growing medium a2: Explain the components of a wood canopy	Horticultural facility	practical Assignment tasks And report	Short exams Assignment of duty discussions	
3	2 Theoreti	a1: Mentions the reasons for the development of vegetable cultivation in Iraq. Then give examples of vegetable crops according to the period of growth and the nature of growth a4: Discusses the most important reasons for the development of vegetable cultivation in Iraq b3: Shows the importance of vegetable crops in terms of nutritional value c2: Write a report on the nutritional importance of vegetable crops c1: Vegetable crops are divided according to the botanical division based on the structural and anatomical specifications of the plants.	Reasons for the development of vegetable cultivation in Iraq. The nutritional value and botanical division of vegetable crops.	auditory methods, Writing style on the blackboard Dialogue style Direct slides Power Point	Short exams Assignment of duty discussions	
	3 practical	al: Define seed reproduction and its features	Seed reproduction	practical Assignment tasks And report	Short exams Assignment of duty discussions	
4	2 Theoreti	c1: Divide vegetable crops according to the edible part c1: Divide vegetable crops according to the part that is eaten c1: Plants are divided according to their thermal needs, as each vegetable crop has a specific range of temperatures that suit its growth. b2: Explains the effect of environmental conditions on vegetable production in Iraq	Dividing vegetable crops	auditory methods, Writing style on the blackboard Dialogue style Direct slides Power Point	Short exams Assignment of duty	
	3 practical	a1: Define vegetative reproduction and its features).	Vegetative propagation	practical Assignment tasks And report	Short exams Assignment of duty discussions	
5	2 Theoreti	b3: Shows the impact of technical factors on the production of vegetable crops in	Problems of growing vegetables in Iraq	auditory methods, Writing style on the blackboard	Short exams, assignments, discussions	

		Iraq b2: Explains the effect of weather conditions on vegetable crops in Iraq		Dialogue style Direct slides Power Point	
	• 3 pract:	al: Define the following terms (Fertilizer, Manor) a 4: DifferenceBetweeninorganic fertilizers and organic fertilizers	Fertilization	practical Assignment tasks And report	Short exams Assignment of duty discussions
6	• Theoretica	c1: List the weather factors that affect vegetable crops d1: Explain the effect of weather factors on crops b3: Shows the effect of weather factors that affect vegetable crops b2: Explains how growth regulators affect vegetable crops b2: The effect of temperature shows the growth of vegetable crops b2: Explains the effect of lighting on the growth of vegetable crops b2: Explains the effect of CO2 on plants	Factors affecting the growth of vegetable crops	auditory methods, Writing style on the blackboard Dialogue style Direct slides Power Point	Short exams, assignments, discussions
	3 practical		Irrigation.	practical Assignment tasks And report	Short exams Assignment of duty discussions
7		a1: Known as sexual reproduction b3: Shows how the farmer is satisfied with the limited income in Iraq a1: Seed lobe b3: Shows the characteristics of good seeds with a drawing c1: Enumerates the methods of planting seeds a1: Known as seedlings b3: Explains the importance of transplantation and the factors that affect the success of the transplantation process c1: Vegetable crops are divided according to their tolerance to transplantation, with examples a1: Knows localization c1: Enumerates the methods of localization	Reproduction of vegetable crops (sexual)	auditory methods, Writing style on the blackboard Dialogue style Direct slides Power Point	Short exams, assignments, discussions
	• 3 pract	al: Define the pruning process and the purposes of pruning al: Mention the types of pruning and explain the pruning in terms of the amount of wood removed al: Mention the different education methods	Pruning	practical Assignment tasks And report	Discussing student reports

		propagation b2: Explains the methods of multiplication in detail c1: List the methods of asexual reproduction	vegetable crops	Writing style on the blackboard Dialogue style Direct slides Power Point	discussions
	3 practical	Discussing student reports	Semester test1).	practical Assignment tasks And report	Short exams Assignment of duty discussion
9	2 Theoreti	c1: Section of the flowering system in vegetable crops in detail b3: Explain the types of pollination in vegetable crops in detail	Flowering and fruit setting in vegetable rops	auditory methods, Writing style on the blackboard Dialogue style Direct slides Power Point practical Assignment tasks And report	Short exams, assignments, discussions
	3 practical	al : State the conditions for establishing orchids	fruit garden	practical Assignment tasks And report	Short exams Assignment of duty discussions
10	al	b1:The basics of classification of fruit trees b3: Shows the importance of the nutritional value of fruit a4: Discusses the situation of fruits in Iraq b3: Shows the influence of factors the success of fruit cultivation a4: Discusses the harmful and beneficial effects of low temperatures b2: Explains the effect of air humidity and rain b3: Shows the effect of wind on fruit trees b3: Shows the effect of light on fruit trees b3: Shows the effect of ground wa level on fruit trees d5: Explains the cultivation of fruit trees a4: Explains the effect of irrigation water and its relationship to the success of fruit trees	Second: Fruit trees	practical Assignment tasks And report	Short exams Assignment of duty discussions
	3 practical	a1: Define the agricultural cycle a1: Mention the qualities of good alternation a1: Mention the steps for designin the course required per unit area. A scientific visit to one of the	Agricultural cycle.	practical Assignment tasks And report	Short exams Assignment of duty discussions

		centers Seed Inspection And			
11	3Theoretic	certification. a1: Sexual reproduction is known in fruit trees b3: Explains the advantages and disadvantages of this method c1: Divides the seeds according to embryos a1: Vegetative reproduction is known. Mention its features a1: Lists the methods of vegetative propagation in detail a1: defines stillness c1: Enumerates ways to break silence a1: defines vaccination a4: It distinguishes between grafted seedlings b3: Explains the conditions for successful grafting, then the most important operations that are performed after grafting, then explains the principles used in propagating some fruit trees. d5: Distinguish between grafting and mounting a1: Knows the composition b3: Shows the types of installation a1: Known, as pruning b3: Shows the benefits of pruning c1: The pruning is divided into several sections, mention them	Methods of reproduction fruit plants	practical Assignment tasks And report	
	3 practical		Nurseries	practical Assignment tasks And report	Short exams Assignment of duty discussions
12		a1: He knows the nursery b3: It indicates certain conditions the successful establishment of a nursery in any area that must be n a1: He mentions the conditions necessary to protect and produce seedlings in the nursery, including these conditions b3: Shows the types of nurseries b6: He plans to establish a nursery		practical Assignment tasks And report	Short exams Assignment of duty discussions
	3 practical	b1: The number of general characteristics that must be availa in the growing medium a1: Mention the types of anvils us in multiplication.	Anvils and containers us in propagating and developing plants	practical Assignment tasks And report	Short exams Assignment of duty discussions

13	2Theoretic	c1: Divide ornamental plants, then enumerate the methods of propagating ornamental plants	Third: Ornamental Plants	practical Assignmen And report		Short exams Assignment of duty discussions	
	3 practical	b1:Practicing field work and plant some plant seeds	Second semester exam	practical Assignmer And report		Short exams Assignment of duty discussion	
14	2Theoretic	agricultural cycle , then mention the benefits of the agricultural cycle b3: List the important points that must be taken into consideration when designin the agricultural cycle a1: Understand what is meant by intercropping, then mention its benefits and disadvantages of intercropping	Agricultural cycle:	practical Assignmer And report		exams Assignment of duty discussion	
	3 practical	a2: Describe the sections of ornamental bulbs	Bulbs	Discussing	student repo	Short exams Assignment of dutydiscussions	
15	Theoretics	A PowerPoint presentation on plants and a scientific visit to the horticulture station and private nurseries	A Power Point presentation on pl and a scientific visit to the horticulture station and private nurseries	a scientific horticulture private nur	visit to the e station and series	Short exams Assignment	
	3 practical	A field visit to the Nineveh Horticulture Station and the private nurseries.	A Power Point presentation on lants and a scientific vis the horticulture station and private nurseries	a scientific horticulture private nur	e station and	Assigning tasks and reporting Assigning tasks and reporting	
11.				and the second			
Distribut	tion of the gr	ade out of 100 according to the task	cs assigned to the student,	such as dail	ly preparation	, daily, oral, monthly, written ex	cams, and
12. L	earning and	Teaching Resources methodology, if any)			Learning and	teaching resources	Chinese .
Main ref	erences (sou	rces)			Scientific ref	inciples book, Part 1 and Part 2 erences specialized in fruit trees	s, vegetab
		s and references (scientific journals,	reports)		to nurseries Principles of horticulture Dr. Karim Saleh Abdul and Horticulture, written by Dr. Faisal Rashid Nasser		
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	and private nurseries	
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Distribution of the grade out of 100 ac	cording to the tasks assigned to the studen	nt, such as daily preparation, daily, oral, monthly, written exams, and
12. Learning and Teaching Resource	205	
Required textbooks (methodology, if a	ny)	Learning and teaching resources Gardening principles book, Part 1 and Part 2
Main references (sources)		Scientific references specialized in fruit trees, vegetal to nurseries
Recommended books and references (s	scientific journals, reports)	Principles of horticulture Dr. Karim Saleh Abdul and Horticulture, written by Dr. Faisal Rashid Nasser
Electronic References, Websites		https://exa.unne.edu.ar/ Principles of Horticultural S

Theoretical subject teacher Dr. noha waleed qader practical subject teacher,

M. M. Sahar Ali Khalw

M.M. Zahour Fouad Abdel Jabbar

200 Chairman of the Scientific Committee A. Dr, Arken M. Rm-Head of the Horticulture and Landscape Engineering Department, A. Pr

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