Vegetables and protected agriculture description course Pathology : Course Name Vegetable diseases and protected agriculture : Course Code VEPA420 Annual: Year / Semester 2024-First semester/fourth stage/2023 Date this description was prepared 2024/2/1 : Available forms of attendance .5 In Class :(Number of study hours (total)/number of units (total unit 3.5 /hours 75 (Name of the course administrator (if more than one name is mentioned Dr.Raghad Naif Mheedi .M,M. Rayan Salem Mahmoud. .8 Course objectives The learner should be able to define the concept of disease and the information that must be available to know the medical history Choosing the appropriateness of the factors affecting the disease and determining its ability to spread Differentiate between types of pathogens and know all their classifications Understanding the basics of modern planning to develop a program that explains the forms and patterns of plant diseases class ng to the type of eachDistinguishing between classes and sections of fungi accordi Identify plant diseases, symptoms and signs, and what must be taken into account when distinguishing between them A comprehensive study of the various types of control, how to diagnose each disease, and determine the controls .nd conditions that must be observed when carrying out all instructions to carry out the control in the proper mannera .9 Teaching and learning strategies Interactive lecture Brainstorming

and discussion Dialogue

Field Training

Practical exercises

project Field

education -Self

			Course s	structure	
Evaluation	Learning method	Name of the unit	Required learning outcomes	hours	the week
n method Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue	or topic An overview of the plant concept of disease and its	Identify diseases that spread in agricultural :a1 fields	1 theore tical	1
Short practical test1	brainstorming, dialogue and discussion, field	history	Learn about the installation of a greenhouse and ,a1 the mechanism of cultivation inside it	3 practic al	
Semester exam 1, final exam	brainstorming, dialogue	The importance of crops and their relationship to plant diseases	Recognizes the economic importance of field :a2 crops and their relationship to diseases	1 theore tical	
discussion			Field trips to find out the factors that help spread a2 diseases inside greenhouses	3 practic al	2
Semester exam 1, final exam Laboratory	lecture, Interactive brainstorming, dialogue -and discussion, self learning Interactive lecture,	Medical history for each disease	Get to know a brief history of each disease :a3 spreading in agricultural fields Explains the most common pathogens that lead a3	1 theore tical	3
	brainstorming, dialogue and discussion, field learning -training, self		to economic losses	practic al	
Semester test 1, final , test report	Interactive lecture, brainstorming, dialogue -self ,and discussion learning	The importance of organisms causing plant diseases	Identify the organisms that cause plant diseases a4: and understand the meaning of pathogenicity	1 theore tical	
	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning		He is familiar with the most important agricultural a4 methods used inside greenhouses to prevent disease infections	3 practic al	4
Semester est 1, final test report	Interactive lecture, dialogue ,brainstorming -and discussion, self learning	Disease symptoms and signs	Explains the difference between pathological a5: symptoms and pathological signs	1 theore tical	
Field evaluation	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning		The most common symptoms on plants grown in biggreenhouses are described		5
nort test,	Interactive lecture,	The relationship of	Explains the concept of plant pathology and its:b1	. 1	6



				A la a a se	-
final	test brainstorming, dialogu		relationship to environmental health	theore tical	
			relationship to	(icai	
-	learni	- I silvinonnichtal health	1. 1.2		
discus	sion Interactive lecture		Explaining the most important means that help b2		
1	and brainstorming, dialogu	e	spread diseases that affect plants in greenhouses	3	
homew	anscussion, fiel	d		practic	
1	training, practic			al	
1	-exercises, and se				
Semes	ter Interactive lecture		incortant :h2	4	
exam	2, brainstorming, dialogu		Familiarize yourself with the most important :b2	1	
final ex	am -and discussion, se		factors affecting the epidemiology of diseases and	theore	
	learnin	groonhouses	their relationship to the spread of diseases in greenhouses	tical	
Fie	eld Interactive lecture		Proficient in the process of taking samples from b3		7
proj			plant parts to the laboratory	3	,
1	and discussion, field	1	plante parts to the task	practic	
1	training, practica	1		al	
	exercises, field project	,		ai	
	learning-se	lf			
Semest	- Interdetive lecture		Master the importance of pathogens and their :b3	1	
1	2, brainstorming, dialogue	relationship and their	relationship to plant health and environmental	theore	
final exa	and discussion, se	to plant health	health	tical	
Direc	learnin	8			
drawin	iecture		Proficient in the process of taking soil samples for b4		8
an	, , , , , , , , , , , , , , , , , , ,		the laboratory	3	
homewor	allocassion, ficio	1		practic	
110111EWO	rk training, practical exercises, and sel	1		al	
	learning	ı			
Semeste			Understand the importance of the court of the		
exam 2	interior icocurc,	The chroad of	Understand the importance of the spread of :b4 pathogens in agricultural fields and greenhouses	1	
final exan	.	diseases in	patriogens in agricultural fields and greenhouses	theore	
	learning	greenhouses		tical	
Direct		<u> </u>	Familiar with the process of isolating pathogens in a1		
drawing			the laboratory		9
and			the laboratory	3	
homework				practic	
8	-exercises, and self			al	
	learning				
Semester		The latest	Masters the importance of diagnosing plant :b5		
test2	•	technologies in	diseases by all modern means	1	
	-and discussion, self	diagnosing diseases	and an incident means	theore	
	learning	and pathogens		tical	
Direct	Interactive lecture,		Learn about the mechanism of laboratory b2		1
drawing	brainstorming, dialogue		diagnosis of pathogens		10
and	and discussion, field		alagnosis of pathogens	3	
homework	training, practical	Practical steps		practic	
	-exercises, and self			al	
	learning	,			
Final test		The importance of	Evoluing the great importance of studying to a state of	1	-
i iilai test	•		Explains the great importance of studying insect :c1	1	
	brainstorming, dialogue	insect vectors in	vectors of pathogens and their relationship to	theore	11
King to grant and	-and discussion, self	greenhouses	.greenhouses	tical	



	3 practic al	Learn about the mechanism of laboratory c1 diagnosis of pathogens		brainstorming, dialogue and discussion, field	Direc drawin an homewo
	1 theore tical		Control the carrier and how to transport	brainstorming, dialogue -and discussion, self learning	Final te
1	3 practic	Purifying pathogens and preparing laboratory b4 slides for examination	Practical steps for	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direc drawing and homewor
	1 theore tical	Explains an ideal control program and suggests :c3 an optimal method for disease management and control	Ideal control in disease management	Interactive lecture, dialogue ,brainstorming -and discussion, self learning	Final tes
13	3 practic al	Laboratory evaluation of the effectiveness of c3 some pesticides	Practical steps	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -self exercises, and learning	discussior and homework
	1 theore tical	Leads discussion panels on the critical :d1 importance of the spread of plant diseases and how to control them	The importance of the spread of pathogens in greenhouses	,Interactive lecture brainstorming, dialogue -and discussion, self learning	Short test, final test
14	3 practic al	Spraying chemical pesticides is applied in practice c2 inside chemical houses	•	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Short practical test3
	1 theore tical	impact on Identifying health risks and their :e1 human health Negligence in public health	Identifying health risks and their impact on human health	nialogue brainstorming i	Short test final test
15	3 practic al	Learn about the most important biological control b4 agents, their abundance and use		nteractive lecture, prainstorming, dialogue nd discussion, field raining, practical eld project, exercises learning-self	project

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Course	evaluation	
Course	evaluation	

Relative weight %	Class	(Calendar date (week	Calendar methods
2.5	2.5	fourth week	Report 1

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1	Report 2	The state of the s		
Contraction in	Quiz (Short test (1	The fifth week		
4	Outz (Short test (2)	sixth week	2.5	2.5
5	Quiz (Short test (3	The fourteenth week	2	2
6	(Semester test (1	The fifteenth week	2	2
7	(Semester test (2	the sixth week	1	1
1	Final theoretical test	The eleventh week is difficult	7.5	7.5
9	Final theoretical	Final semester exams	7.5	7.5
10	Practical field project Field evaluation	The fifteenth week	40	40
1	Field evaluation	The third and fifth week	5	5
12	Quiz (Short practical test (1	The third and littly week The first week	2	2
13	Oute (Short practical test (2)		1	1
CONTRACTOR OF THE PARTY OF THE	Outs (Short practical test (5)	fourth week	0.5	0.5
1	and homework Live drawings	The fourteenth week	1	1
15	Final practical test	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
	the total	Final semester exams	20	20
.12	· · · · · · · · · · · · · · · · · · ·	100	%100	%100
.1.	g and teaching resources	Learning		

%100	%100	Logi	ning and teac	hing resol	ırces	.12
						Marian Marian Spirit Committee
nid-Dr. Samir Mik	Required textbooks (methodology, if any					
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		d vegetables/University of Aleppo	(Main references (sources			
Dr. Muhamma	ad Amer Fayyad And tha	nk you Mohamed - Plant diseases				
		Albasrah university - Hamza				
Writt	en by George Agrios and	I translated by Dr diseases Plant				
		Mahmoud Musa Abu Arqoub			MATERIAL AND ADDRESS OF SHIPE	Company of the section of
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