principles of plant protection Description of the course on

		: Course	Name	.1
		Principles of pla	ant prote	ection
		: Cours	e Code	.2
				RPP117
		Annual : Year / Se	mester	.3
stage is the Department of Agricultura	I Economics and the se	cond is the Department of Soil and Water The sec		
			-2023/ Re	sources
		Date this description was pr		4_
			202	4/2/1
		: Available forms of atte		.5
			My pre	sence
	:(total)	number of units (total) Number of study		.6
		theoretical hours / 3 practical hour		nits 2
(Name of the	e course administ	Dr,Khaled A	ghad Nayef Amiri Muha HLAS Moha	ımmad .
		Course obj	ectives	.8
Choosing Understanding the basics of r distinguishing between the each disease, and determine the control	the appropriateness of the pathoge modern planning to develop Distinguish between about entomo em when Identify plant discols and conditions. A comp	and discuss F Practic	to spread in types of it diseases be of each ead Learn o account diagnose the proper ategies active lector frainstorm	.9 ure - ing - ing - ses - ect -
		Course st	ructure	.10
Evaluatio Learning method	Name of the unit	Required learning outcomes	hours	the
n method	or topic			week

				,	
Semester ,exam 1 final exam Short practical test1	Interactive lecture, brainstorming, dialogue -and discussion, self learning Interactive lecture, brainstorming, dialogue and discussion, field	An overview of the plant concept of disease, its definition knowledge of and , the disease and the plant host Plant pathology laboratory	Concept of plant disease :A1 Plant disease pathogen The -1 The breadwinner -2 Environmental factors -3 Identify laboratory equipment :C6 The student learned how to use a microscope, :A41 how to examine pathogens, and prepare slides	1 theore tical	1
Semester exam 1, final exam	learning -training, self Interactive lecture, brainstorming, dialogue -and discussion, self learning	Factors of the pathological triangle	Recognizes the disease pyramid, the disease A2 triangle, and the factors affecting it and medical history	1 theore tical	
Live discussion	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Conducting the sterilization process inside the laboratory sterilization -	The student learns about sterilization methods :C6 and how to eliminate pathogens inside the laboratory	3 practic al	2
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue -discussion, self and learning	Development and detection of plant disease	Learn a brief overview of the disease history of :A3 and the each disease spreading in agricultural fields stages of development and detection of the plant .disease	1 theore tical	3
Laboratory evaluation	Interactive lecture, brainstorming, dialogue and discussion, field learning -training, self	Food environments	Identifying food media and how to prepare :A6 them	3 practic al	J
Semester test 1, final , test report	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Pathogens of plant hosts	diseases Identify the organisms that cause plant :A4 and understand the meaning of pathogenicity	1 theore tical	
Practical short test 2 direct , drawing	Interactive lecture, dialogue ,brainstorming and discussion, field training, practical -exercises, and self learning	Identify several symptoms of pathogenic causes, diagnose them within the disease, and differentiate between pathogenic causes	The student learns about different plant :A10 diseases and how to diagnose them	3 practic al	4
Semester test 1, final , test report	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Disease symptoms and signs	It explains the difference between pathological :A1 and studies the symptoms and pathological signs anatomical symptoms and apparent and pathological signs	1 theore tical	5
evaluation	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self	Isolation of causing organisms plant diseases	Laboratory isolation of pathogens from :A10 plant parts different	3 practic al	

	learning				
final test	nteractive lecture, brainstorming, dialogue -and discussion, self learning	Basics of integrated management	attack plants Shows how pathogens :B1 mechanically and chemically and discusses the .concept of the basics of integrated management	1 theore tical	
	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -self exercises, and learning	Scientific visit	scientific visit to the fields Conduct a :D9 Horticulture stations, identifying the most important plant diseases and diagnosing them in the field	3 practic al	6
Semester exam 2, final exam	Interactive lecture, dialogue ,brainstorming -and discussion, self learning	Synthetic and chemical defences	the importance and how plants Understands :B2 defend themselves through synthetic defenses and biological chemical defenses	1 theore tical	
writing a report	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, field project, learning-self	A scientific visit to the plastic one of houses	and inside Conduct a scientific visit to the fields :D9 and identify the most important the greenhouses plant diseases and diagnose them in the field	3 practic al	7
Semester exam 2, final exam	Interactive lecture, brainstorming, dialogue	world of insects	factors that Learn about insect science and the :A3 helped insects survive and spread	1 theore tical	
Discussion and homework	Interactive lecture, brainstorming, dialogue	Insect body wall	Learn the basics about insects and their body -A1 walls	3 practic al	8
Semester exam 2, final exan	Interactive lecture, brainstorming, dialogue	harms of Benefits and insects	the harms and benefits of insects Learn about :A4 and their economic importance	1 theore tical	
Discussio and homewor	n Interactive lecture, d brainstorming, dialogue	Identify the insect's body	recognizes insect body regionsA2	3 practic al	9
Semeste test	er Interactive lecture,	Learn about modern methods of	Master the methods of pest controlB1:	1 theore tical	
Discussion and homewood	on Interactive lecture, ad brainstorming, dialogue	Study concepts	is familiar with the concept of evolution and B1 impossibility	3 practic al	10
	est Interactive lecture		He is proficient in pest control Proficient :B2	1	11

	brainstorming, dialogue	methods of	methods	theore	
400	-and discussion, self	resistance	memods.	tical	
	learning	, , , , , , , , , , , , , , , , , , , ,		1.00	
Discussion	Interactive lecture,				1
Discussi	brainstorming, dialogue		identifies some insectsB2		
	and the second s		identilles some insectsb2	3	
homework		Identify insects		practic	
	training, practical			al	
	-exercises, and self				
	learning				
Final test	lecture, Interactive		the methods of pest control Master :B3	1	
	brainstorming, dialogue	Learn about modern			
	-and discussion, self	methods of		theore	
	learning	resistance		tical	
and my	,Interactive lecture		Examines the types of mouthparts of important B3		
homework					12
Homework	,	\$	insects and the appendages of the head region	3	
	and discussion, field	Examines the mouth		practic	
	training, practical	parts of the insect		al	
	-exercises, and self	1			
	learning				
Final test	Interactive lecture,		Identify crop insects :B4	1	
	brainstorming, dialogue	Insects that infect		theore	
	-and discussion, self	crops			
	learning			tical	
Discussion			examines the chest and its appendagesB4		
and			CXMINITES THE SHOOT AND THE SPECIAL SP		13
homework		Examines the insect's		3	
Homework				practic	
	training, practical	body parts		al	
	-exercises, and self				
-	learning				
,Short test				1	
final test	0.	Orchard insects	garden insects Identify :B5	theore	
	-and discussion, self	Ordinara miscous		tical	
	learning			ticai	
Short	Interactive lecture,		Examines the abdomen and its appendages C1		14
practical	brainstorming, dialogue			,	14
test3		Examines the insect's		3	
	training, practical	body parts		practic	
	-exercises, and self			al	
	learning				
Short test			Identify general insects :B6		
final test			identity general insects .bu	1	
וווומו נכטנ	0,	General insects		theore	
	-discussion, self and			tical	
	learning		diamana annual income per		
Field	Interactive lecture,		discusses general insectsB5		15
project				3	
	and discussion, field	General insects		practic	
	training, practical	General msects		al	
	exercises, field project,			al	
	learning-self				
			evaluation C	Course	.1
COLUMN VIA	BRIDE TO STATE				11.00
Relat	ive	Class	(Calendar date (week Calendar i	methods	

l				% weight
	Report 1	fourth week	2.5	2.5
	Report 2	The fifth week	2.5	2.5
	Quiz (Short test (1	sixth week	2	2
	Quiz (Short test (2	The fourteenth week	2	2
	Quiz (Short test (3	fifteenth week The	1	1
	(Semester test (1	the sixth week	7.5	7.5
	(Semester test (2	The eleventh week is difficult	7.5	7.5
	Final theoretical test	Final semester exams	40	40
	Practical field project	The fifteenth week	5	5
1	Field evaluation	and fifth week The third	2	2
1	Quiz (Short practical test (1	The first week	1	1
1	Quiz (Short practical test (2	fourth week	0.5	0.5
1	Quiz (Short practical test (3	The fourteenth week	1	1
1	Live drawings and homework	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
1	Final practical test	Final semester exams	20	20
	the total	100	%100	%100
	(Required textbooks (methodology	Introduction to plant pathology insects Orchard General insects	oh Doomin Milabell Doob del	Hamid Taraki
ource	(Main references (s	orchards and vegetables Diseases Mosul - Zarari-Jawad al-Dr. Abd al Muhammad Hamza - Plant diseases of Basra George Akrios and - Plant Diseases Abba Arqoub Nakhilan - Practical plant diseases Basra	University of the Control of the Con	University - D
and reports	Journal of plant pathology Recommended supporting books (references (scientific journals, r			
ectronic	references, Internet sites Ele	Google scholar		

Practical subject teacher **IKHLAS Mohammad**

Noor salah

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Alaa Muhammad Abdullah