

field crop diseases Course description of

: Course Name	
Field crop diseases	
: Course Code	
CRDI363	
Annual : Year / Semester	
2024-2025 - First semester/third stage/2023	
Date this description was prepared	
2025 / 2 / 1	
Available forms of attendance	
presence My	
: (Number of study hours (total)/number of units (total)	
hours60	
(Name of the course administrator (if more than one name is mentioned	
Dr. Raghad Nayef Mahidi	
M. M. Saleh Ahmed Issa	
Course objectives	
<p>concept of disease and the information that must be available to The learner should be able to define the</p> <p>know the medical history</p> <p>Choosing the appropriateness of the factors affecting the disease and determining its ability to spread</p> <p>assificationsDifferentiate between types of pathogens and know all their cl</p> <p>Understanding the basics of modern planning to develop a program that explains the forms and patterns of</p> <p>plant diseases</p> <p>class Distinguishing between classes and sections of fungi according to the type of each</p> <p>the teacher needs and what is available to him to master his work Familiarity with the information</p> <p>Identify plant diseases, symptoms and signs, and what must be taken into account when distinguishing</p> <p>between them</p> <p>disease, and determine the controls A comprehensive study of the various types of control, how to diagnose each</p> <p>and conditions that must be observed when carrying out all instructions to carry out the control in the proper manner</p>	
Teaching and learning strategies	
<p>Interactive lecture -</p> <p>Brainstorming -</p> <p>and discussion Dialogue -</p> <p>Training Field -</p> <p>Practical exercises -</p> <p>Field project -</p>	

Course structure .10

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	An overview of the plant concept of disease	A1 Identify diseases that spread in agricultural fields	1 theoretical	1
Short practical test1	Interactive lecture, brainstorming, dialogue and discussion, field learning -training, self	Laboratory and equipment	Gets acquainted with the laboratory and all :C3 laboratory equipment	3 practical	
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	The importance of field crops	:A2 Recognizes the economic importance of field crops and their relationship to diseases	1 theoretical	2
Direct drawing	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Laboratory working conditions	:C6 Familiar with all laboratory safety conditions when conducting laboratory experiments	3 practical	
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Knowledge of diseases and their history	:A3 Get to know a brief history of each disease spreading in agricultural fields	1 theoretical	3
Field evaluation	Interactive lecture, brainstorming, dialogue and discussion, field learning -training, self	Isolation and diagnosis of pathogens	:A52 Isolate the pathogens to be diagnosed	3 practical	
Semester test 1, final test report	Interactive lecture, brainstorming, dialogue -and discussion, self learning	The presence of ,pathogens pathogenicity and Koch's hypotheses	:A4 Identify the organisms that cause plant diseases and understand the meaning of pathogenicity	1 theoretical	4
Practical short test 2 direct , drawing	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Optical microscopes in laboratories	:A41 Examine pathogens using optical microscopes	3 practical	
Semester test 1, final test report	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Symptoms and signs of disease in plant families	:A5 Explains the difference between pathological symptoms and pathological signs	1 theoretical	5
Field evaluation	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self	Pathological causes their relationship and to girls	B6 explains the most common pathogens that lead to losses	3 practical	

Short test, final test	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Environmental Health	Explains the concept of plant pathology and its B1 environmental health relationship to	1 theoretical	6	alutatio method	Semester exam
Direct drawing and homework	Interactive lecture, dialogue ,brainstorming and discussion, field training, practical -exercises, and self learning	Agricultural food media	prepares different food mediaA7	3 practical			
Semester exam 2, final exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Epidemiology of diseases	Familiarizes with the most important factors affecting the epidemiology of diseases :B2	1 theoretical	7		
Field project	Interactive lecture, brainstorming, dialogue discussion, field and training, practical exercises, field project, learning-self	Laboratory diagnosis of diseases	Identify the mechanism of laboratory :A26 diagnosis of pathogens	3 practical			
Semester exam 2, final exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	The importance of pathogens	Master the importance of pathogens and their :B3 relationship to plant health and environmental health	1 theoretical	8		
Direct drawing and homework	Interactive lecture, brainstorming, dialogue ,and discussion training, practical -exercises, and self learning	Symptoms, signs, and life cycles	describes the most common symptoms of plant C2 diseases	3 practical			
Semester exam 2, final exam	Interactive lecture, dialogue ,brainstorming -and discussion, self learning	Spread of pathogens in the environment	Understands the importance of the spread of B4 pathogens in agricultural fields	1 theoretical	9		
Direct drawing and homework	Interactive lecture, brainstorming, dialogue field ,and discussion training, practical -exercises, and self learning	Taking samples from plant parts and soil	Proficient in the process of taking samples from C58 plant parts and soil	3 practical			
Semester test2	Interactive lecture, brainstorming, dialogue -discussion, self and learning	Modern diagnostic methods	Masters the importance of diagnosing plant B5 diseases by all modern means	1 theoretical	10		
Direct drawing and homework	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -self exercises, and learning	Preparing laboratory slides	Purification of pathogens and preparation of C11 laboratory slides	3 practical			
Final test	Interactive lecture,	The importance of	demonstrates the great importance of studying C1	1	11		

Report 1
Report 2
Test (1)
Test (2)
3
6
7

	brainstorming, dialogue -and discussion, self learning	insect vectors	insect vectors of pathogens	theore tical	
Direct drawing and homework	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Field visits	conducts a field visitD7	3 practic al	
Final test	Interactive lecture, brainstorming, dialogue -and discussion, self learning	How to transmit disease and injury	control the suggests an appropriate method toC2 carrier of diseases and how to transmit and infect them	1 theore tical	
Direct drawing and homework	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Sterilization methods	Evaluating the effectiveness of some :E4 sterilization methods	3 practic al	12
Final test	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Integrated control	suggests Explains an ideal control program and :C3 an optimal method for disease management and control	1 theore tical	
Direct drawing and homework	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Methods of protecting field crops	He is familiar with the most important :B17 to protect agricultural agricultural methods used crops from infection	3 practic al	13
,Short test final test	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Discussion panel	panel discussions on the critical He leads :D1 importance of the spread of plant diseases and how to control them	1 theore tical	
Short practical test3	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Artificial infection of laboratory plants	pathogenicity by artificially Learn how to proveA42 infecting tested plants	3 practic al	14
,Short test final test	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Disease risks to human health	Identify health risks, their impact on human E1 health, and the impact of negligence on public health	1 theore tical	
Field project	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, field project, learning-self	Diagnosing pathological symptoms and signs	difference between pathological explains theB1 symptoms and pathological signs	3 practic al	15
evaluation Course .11					
Relative	Class	(Calendar date (week	Calendar methods	T	

% weight			fourth week		Report 1
2.5	2.5		The fifth week		Report 2
2.5	2.5		sixth week		Quiz (Short test (1
2	2		The fourteenth week		Quiz (Short test (2
2	2		fifteenth week The		Quiz (Short test (3
1	1		the sixth week		(Semester test (1
7.5	7.5		The eleventh week is difficult		(Semester test (2
7.5	7.5		Final semester exams		Final theoretical test
40	40		The fifteenth week		Practical field project
5	5		and fifth week The third		Field evaluation
2	2		The first week		Quiz (Short practical test (1
1	1		fourth week		Quiz (Short practical test (2
0.5	0.5		The fourteenth week		Quiz (Short practical test (3
1	1		Weeks 6, 8, 9, 10, 11, 12 and 13		Live drawings and homework
5.5	5.5		Final semester exams		Final practical test
20	20		100		the total
%100	%100				

Learning and teaching resources .12

Ani Demisermjidjergis-Dr. Raqeeb Akaf Al - Field crop diseases	Required textbooks (methodology, if any
Hamid -Dasmir Mikhail Daabd al -Diseases of orchards and vegetables University of Mosul -Zarari -Jawad al-Tarabiyah Dr. Abd al Dr. Muhammad Amer Fayyad and Muhammad Hamza -Plant diseases University of Basra - d translated by written by George Akrios an -Plant Diseases Damahmoud Musa Abba Arqoub University of -written by Abdulaziz Majeed Nakhilan -Practical plant diseases Basra	(Main references (sources
	Recommended supporting books and references (scientific journals, (....reports
Google scholar Google chrome Google research Researchgate Journal of plant pathology	Electronic references, Internet sites

Saleh
Practical subject teacher

M.M, Issa Saleh Ahmed

Head of Field Crops Department
Mr. Dr. Moyassar mohamad

Theoretical subject teacher

Dr. Raghad Naif Mheedi

Chairman of the Scientific Committee

Mr. Dr. weam yah ya Rashed