

# field crop diseases Course description of

: Course Name	Field crop diseases
: Course Code	CRDI363
Annual : Year / Semester	2024-First semester/third stage/2023
Date this description was prepared	2024/2/1
: 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	.8
<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>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>
Teaching and learning strategies	.9
	<ul style="list-style-type: none"> <li>- Interactive lecture</li> <li>- Brainstorming</li> <li>- and discussion Dialogue</li> <li>- Training Field</li> <li>- Practical exercises</li> <li>- Field project</li> </ul>

## 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 laboratory equipment :C3	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	Familiar with all laboratory safety conditions when conducting laboratory experiments :C6	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	Isolate the pathogens to be diagnosed :A52	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
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 field ,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  
 Report test (1)  
 Report test (2)  
 Report test (3)

	brainstorming, dialogue -and discussion, self learning	insect vectors	insect vectors of pathogens	theoretical	
Direct drawing and homework	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Field visits	conducts a field visitD7	3 practical	
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 theoretical	12
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 practical	
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 theoretical	13
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 practical	
,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 theoretical	14
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 practical	
,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 theoretical	15
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 practical	

evaluation Course .11

Relative	Class	(Calendar date (week	Calendar methods	T
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brainstorming, dialog  
-and discussion, ses  
Interactive  
drawing and brainstorm  
homework and

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

Learning and teaching resources .12

Ani Demisermjidjergis-Dr. Raqeeb Akef 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

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 yahya Rashed