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Field crop management course description

1. Course Name:
Field crops management
2. Course Code:
FICM460
3. Semester / Year:
First semester (Autumn) 2024-2025
4. Description Preparation Date:
1/9/2024
5. Available Attendance Forms: and Electronic
My presence
6. Number of Credit Hours (Total) / Number of Units (Total)
2 theoretical hours / 3 practical hours (75 hours) / 3.5 units
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Waleed Khalid Shahatha, Abdullah Khudair Muhammad Email: w.khalid83@uomosul.edu.iq
8. Course Objectives

Course Objectives	• Teaching field crops students knowledge of field crop management. • Teaching crop students to work in institutions and ministries related to agricultural sciences. • Preparing scientific and academic researchers to work in the field of field crop management of all types. • Increasing students' ability to work in the private and governmental agricultural sectors.
9. Teaching and Learning Strategies	
Strategy	- Interactive lecture - Brainstorming - Dialogue and discussion - Assigning tasks and reporting

10. Course Structure

Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
1	2Theoretical	a1: Recognizes the importance of increasing production and its relationship to human life	Humans and food	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b2: It shows the suitability and preparation of the land for agriculture	Land preparation and preparation	Assigning tasks and reporting	
2	2Theoretical	a2: Learn about land service processes and their relationship to crop growth	Earth service	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	b3: Explains the process of tillage and its benefits	Tillage, its conditions and disadvantages	Assigning tasks and reporting	
3	2Theoretical	a3: Learn about the importance of irrigation systems and the nature of irrigation waterers	Irrigation channels	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	b4: Measures the appropriate planting depth for planting grain crops	Planting depth	Assigning tasks and reporting	
4	2Theoretical	e1: Aware of the correct and appropriate methods for extracting references	Solve problem	Dialogue and discussion	Short exams, assignments, discussions
	3practical	e2: Decide on the correct and appropriate methods for extracting scientific references	Solve problem	Assigning tasks and reporting	
5	2Theoretical	a4: Learn about crop service operations, including planting dates and their impact on calculating	Crop service	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions

		the thermal units needed for crop growth			
	3practical	b5: Discover the types of plows used in the plowing process	Types of plows	Assigning tasks and reporting	
6	2Theoretical	a5: Learn about plant density and seed quantities according to the crop	Plant density and seed quantities according to crop	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	b6: Discovers the best farming methods	Farming methods	Assigning tasks and reporting	
7	2Theoretical	a6: Knows fertilization and the role of major, secondary and rare fertilizers in growth and increasing yield	Fertilization	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	b7: Discovers the importance of dividing and planning fields for crops	Field division and layout	Assigning tasks and reporting	
8	2Theoretical	a7: Knows seeds and explains the importance of seed quality	Seeds	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	b8: It benefits from the process of softening and leveling the soil for the purpose of agriculture	Smoothing and machines used in the smoothing process	Assigning tasks and reporting	
9	2Theoretical	a8: Compares animal dung and green manure	Soil improvers	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	c1: Distinguishes between flat lands and uneven lands	The flatness of the earth	Assigning tasks and reporting	
10	2Theoretical	a9: Learn about the most important herbicides	Combating jungles	Interactive lecture, brainstormin g, dialogue	Short exams, assignments, discussions

		common in major crops		and discussion	
	3practical	b9: Tests appropriate planting dates for growing field crops in Iraq	Planting dates	Assigning tasks and reporting	
11	2Theoretical	a10: Defines irrigation, and explains the role of water in dissolving elements, absorption, and plant growth	Crop irrigation	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	c2: Determines the most appropriate depth for planting plants	Depths of agriculture	Assigning tasks and reporting	
12	2Theoretical	b1:It explains agriculture in prose, passing by terraces, agriculture in lines, and its importance for the type of crop	Methods and depth of cultivation	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	c3: Distinguish between the method of cutting and hoeing	Operations performed after transplantation	Assigning tasks and reporting	
13	2Theoretical	a11: Determines temperature, light, quality, intensity, and duration, humidity, and air	Crop adaptation	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	b10: Discover types of irrigation systems	Irrigation and its types	Assigning tasks and reporting	
14	2Theoretical	a12: Learn about the most important insect diseases that affect field crops and how to prevent them before they appear	Disease and insect control	Interactive lecture, brainstormin g, dialogue and discussion	Short exams, assignments, discussions
	3practical	c4: He tests the types of nitrogen	Fertilizers and methods of adding	Assigning tasks and	

		fertilizers and what level of fertilizer is appropriate for each field crop	them	reporting	
15	2Theoretical	a13: Knows the plant cell and its organelles, the root, stem, and leaves	Plant organs and their functions	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b11: Shows ways to combat weeds growing in fields of field crops	Weeds and ways to combat them	Assigning tasks and reporting	

11. Course Evaluation

Sequence	Calendar methods	Calendar date (week)	Class	Relative weight %
1	Report 1	fourth week	2.5	2.5
2	Report 2	fifth week	2.5	2.5
3	Short test (1) Quiz	sixth week	2	2
4	Short test (2) Quiz	fourteenth week	2	2
5	Short test (3) Quiz	fifteenth week	1	1
6	Semester test (1)	sixth week	7.5	7.5
7	Semester test (2)	eleventh week	7.5	7.5
8	Final theoretical test	Final semester exams	40	40
9	Practical field project	fifteenth week	5	5
10	Field evaluation	third and fifth week	2	2
11	Practical short test (1) Quiz	first week	1	1
12	Short practical test (2) Quiz	fourth week	0.5	0.5
13	Short practical test (3) Quiz	fourteenth week	1	1
14	Live drawings and homework	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
15	Final practical test	Final semester exams	20	20
	The total	100	100%	100%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Strategy for managing and irrigating field crops
Main references (sources)	General agricultural plant
Recommended books and references (scientific journals, reports...)	https://magrj.mosuljournals.com/?lang=ar

Electronic References, Websites	University of Mosul e-learning website

Theoretical subject teacher
Dr. Waleed Khalid Shahatha

Practical subject teacher
Abdullah Khudair Mohammad

Chairman of the Scientific Committee
Dr. Weam Yahya Rasheed

Head of Field Crops Department
Dr.. Maysar Muhammad Aziz