Course Description Form

1. Course Name:
Principles of field crops
2. Course Code:
PRFC112
3. Semester / Year:
Second Semester (Spring) **2023/2024**
4. Description Preparation Date:
1/2 /2024
5. Available Attendance Forms:
Attended
6. Number of Credit Hours (Total) / Number of Units) (Total):
(2 theoretical + 3 practical = 5 hours) ×15 weeks = 75 hours / 3.5 units
7. Course administrator's name (mention all, if more than one name)

1- Name: Dr. Dheyaa Fathi Aljuburi Email: dfhrdheyaa@uomosul.edu.iq	2- Name: Khalil Ibrahim Khalil Email: khaleelibk@uomosul.edu.iq

8. Course Objectives	
Course Objectives (theoretical) 1- Enabling the student to understand and assimilate the scientific material of the program in terms of understanding, memorization, analysis and synthesis while acquiring practical skills in identification, diagnosis and discrimination and providing the student with theoretical information on how to follow modern methods of growing field crops. 2- Learn about the branches of field crop science. 3- Learn about the division of field crops.	(practical) 1- Learn about methods for distinguishing field crop seeds. 2- Learn about soil service processes. 3- Learn about crop service operations.

9.Teaching and Learning Strategies		
Strategy	(theoretical) Interactive lecture Brainstorming Dialogue and discussion Assigning tasks and reporting He is assigned to prepare a report entitled from his diligence It is prepared for discussion with students	(practical) Assignment to team work Assigning tasks and reporting

100Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evalua method
1	2Theoretical 3 practical	a1(theoretical) Learn about the branches of crop science Field b6(practical) Explains the morphological specifications For different crops	(theoretical) Field crops (practical) Distinctive botanical specifications	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
2	2Theoretical 3 practical	b1(theoretical) Explains the division of field crops c5(practical) Shows the different types of seeds	(theoretical) Division of field crops (practical) Differentiating crop seeds	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
3	2 Theoretical 3practical	a2(theoretical) Explain plant families b7 (practical) Explains the types of germination and the distinction between them Its types.	(theoretical) Botanical description of the most important families Field crops (practical)	(theoretical) Auditory methods. Style of writing on the blackboard.	Short exams, assignment of homework, discussions, student

			Germination of field crop seeds	Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	attendance
	2 Theoretical 3 practical	b2(theoretical) Shows the natural and geographical distribution For the soil of Iraq c6(practical) See the types of tillage and their benefits	(theoretical) Environmental factors and their relationship to growth Field crops (practical) Soil service operations	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
	2Theoretical 3 practical	c1(theoretical) Establishes the factors that affect temperature Geographical location b8(practical) Explains the types of machines and their purpose Use it	(theoretical) The relationship of environmental factors to growth Crops Field/temperature (practical) Machines used in plowing Smoothing and leveling	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and	Short exams, assignment of homework, discussions, student attendance

				reporting.	
6	2 Theoretical 3 practical	b3(theoretical) Enumerate the harmful effects of temperature High and low crops Field c7(practical) Enumerates the benefits and symptoms of using fertilizers Lack of elements in plants	(theoretical) Temperature relationship With crops Field (practical) Fertilizers and fertilization	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
7	2Theoretical 3practical	a3(theoretical) Known as the photoperiod b9(practical) Explains methods of planting seeds	(theoretical) The relationship of environmental factors to growth Field/light crops (practical) application of planting seeds Different crops depending on date Cultivate it	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
8	2 Theoretical practical 3	c2(theoretical) Enumerate aquatic plants c8(practical) Masters the importance of crop service operations	(theoretical) The relationship of environmental factors to growth Field crops/water (practical) Crop service	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue	Short exams, assignment of homework, discussions, student attendance

			operations	style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	
9	2Theoretical 3 practical	a4(theoretical) Knows soil air b10(practical) The type of irrigation is chosen according to the crop And the surrounding environment	(theoretical) The relationship of environmental factors to growth Field crops/soil (practical) Irrigation and drainage	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
10	2Theoretical 3 practical	b4(theoretical) He enumerates the methods that can be followed with little effect Erosion, especially in agricultural areas c9(practical) Shows the types of jungles	(theoretical) The relationship of environmental factors to growth Field crops /air (practical) Jungle plants and how to Fight it	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
11	2Theoretical	a5(theoretical)	(theoretical)	(theoretical)	Short

	3 practical	Knows mutual benefit b11(practical) Applies the use of pesticides and their benefits	Life factors: plants And animals and their impact on production And distribution of field crops (practical) The use of pesticides to combat the jungle	Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	exams, assignment of homework, discussions, student attendance
12	2Theoretical 3 practical	a6(theoretical) Describes the structure of the seed c10(practical) Uses appropriate methods for operations Field	(theoretical) Seeds and their importance (practical) Field operations after planting (skinning and patching)	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
13	2Theoretical 3 practical	b5(theoretical) Enumerate the points to be taken into consideration Agricultural cycle design b12(practical) Chooses the appropriate date for operations harvest	(theoretical) Agricultural cycle (practical) Ripening, harvesting and threshing	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic	Short exams, assignment of homework, discussions, student attendance

				class Google Classroom. (practical) Assigning tasks and reporting.	
14	2Theoretical 3 practical	c3(theoretical) Shows methods of breeding and improving crops Self-pollinating c11(practical) Tests seed samples for a purpose Checked it	(theoretical) Breeding and improving crops Field (practical) Grading of grains and seeds	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
15	2Theoretical 3 practical	c4(theoretical) Enumerate grain crops b13(practical) Explains field operations after harvest	(theoretical) Main field crops In Iraq and the world (practical) Field practical application	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance

11.Course Evaluation

	Calendar methods	(Calendar date (week	Degree	Relative weight%
1	Theoretical final report + practical experience reports	theory is 15 weeks	7Theoretical 6 practical	13%
2	Short test Quiz(1)	week (3)	4Theoretical 2 practical	6%
3	Midterm Exam (theoretical and (practical	week (9)	10Theoretical + 5 practical	15%
4	Short test Quiz(2)	week (12)	4Theoretical 2 practical	60%
5	Final practical test	Practical exams week	20%	40%
6	Final theoretical test	theoretical exams week	40%	40%
	Total		100%	100%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	(Principles of field crops (theoretical Dr. Majeed Mohsen Al-Ansari Dr. Abdul Majeed Ahmed Al-Younis Dr. Ghanem Saadallah Hasawi Dr. Wafqi Shaker Al-Shamaa (Principles of field crops (practical Dr. Majeed Mohsen Al-Ansari Dr. Abdul Majeed Ahmed Al-Younis Dr. Ghanem Saadallah Hasawi Dr. Wafqi Shaker Al-Shamaa
Main references (sources)	Field crop production Dr. Mohsen Ali Ahmed Al-Janabi
Recommended books and references (scientific journals, reports…)	All books, scientific journals, and reports specialized in field crops.
Electronic References, Websites	All references and websites concerned with field crops.

Theoretical subject teacher :

Dr. Dheyaa Fathi Aljuburi

Practical subject teacher :

Khalil Ibrahim Khalil

Chairman of the Scientific Committee :

Prof. Dr. Juhina Idrees Mohammed Ali

Head of the Plant Production Department :

Dr. Firas Kadhim Aljuboori