Course Description Form

1. Course Name:
Principles of field crops
2. Course Code:
PRFC112
3. Semester / Year: The first
2023/2024
4. Description Preparation Date:
1/2 /2024
5. Available Attendance Forms:
Attended
6. Number of Credit Hours (Total) / Number of Units (Total):
(75 hours) (3.5 units)
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Mohammed Akram Abdulateef email: mohammed.akram1985@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)	(practical)

	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	Assignment to team work Assigning tasks and reporting

100Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theoretical 3 practical	(theoretical) a1: Learn about the branches of crop science Field (practical) b6: 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	(theoretical) b2: Explains the division of field crops (practical) c5: 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	(theoretical) a2: Explain plant families (practical) b7: Explains the types of germination and the distinction between them Its types	(theoretical) Botanical description of the most important families Field crops (practical) Germination of field 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
4	2 Theoretical 3 practical	(theoretical) b2: Shows the natural and geographical distribution For the soil of Iraq (practical) c7: 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
5	2Theoretical 3 practical	(theoretical) c1: Establishes the factors that affect temperature Geographical location (practical) b12: 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 reporting.	Short exams, assignment of homework, discussions, student attendance
6	2 Theoretical	(theoretical)	(theoretical)	(theoretical)	Short

	3 practical	b3: Enumerate the harmful effects of temperature High and low crops Field (practical) c7: Enumerates the benefits and symptoms of using fertilizers Lack of elements in plants	Temperature relationship With crops Field (practical) Fertilizers and fertilization	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
7	2Theoretical 3practical	(theoretical) a3: Known as the photoperiod (practical) b9: 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	(theoretical) c2: Enumerate aquatic plants (practical) c8: Masters the importance of crop service operations	(theoretical) The relationship of environmental factors to growth Field crops/water (practical) Crop 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
9	2Theoretical 3 practical	(theoretical) a4: Knows soil air	(theoretical) The relationship	(theoretical) Auditory	Short exams,

		(practical) b10: The type of irrigation is chosen according to the crop And the surrounding environment	of environmental factors to growth Field crops/soil (practical) Irrigation and drainage	methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	assignment of homework, discussions, student attendance
10	2Theoretical 3 practical	(theoretical) b10: He enumerates the methods that can be followed with little effect Erosion, especially in agricultural areas (practical) c9: Shows the types of weeds	(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 3 practical	(theoretical) a5: Knows mutual benefit (practical) b11: Applies the use of pesticides and their benefits	(theoretical) Life factors: plants And animals and their impact on production And distribution of field crops (practical) The use of pesticides to combat the jungle	(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
12	2Theoretical 3 practical	(theoretical) a6: Describes the structure of the seed	(theoretical) Seeds and their importance	(theoretical) Auditory methods.	Short exams, assignment

		(practical) c10 : Uses appropriate methods for operations Field	(practical) Field operations after planting (skinning and patching)	Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	of homework, discussions, student attendance
13	2Theoretical 3 practical	(theoretical) b5: Enumerate the points to be taken into consideration Agricultural cycle design (practical) b12 : 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 class Google Classroom. (practical) Assigning tasks and reporting.	Short exams, assignment of homework, discussions, student attendance
14	2Theoretical 3 practical	(theoretical) c3: Shows methods of breeding and improving crops Self-pollinating (practical) c11: 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	(theoretical) c4: Enumerate grain crops (practical)	(theoretical) Main field crops In Iraq and the world	(theoretical) Auditory methods. Style of writing	Short exams, assignment of

		b13 : Explains field operations after harvest	(practical) Field practical application	on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	homework, discussions, student attendance

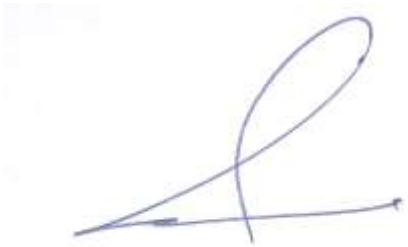
11.Course Evaluation

	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%
	Tota		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	All books, scientific journals, and reports

(scientific journals, reports…)	specialized in field crops.
Electronic References, Websites	All references and websites concerned with field crops.



Theoretical subject teacher : Dr. Mohammed Akram Abdulateef