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 ISLAM ABDULSATTAR ASMAIR islam_zt@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	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	(theoretical) Environmental	(theoretical) Auditory	Short exams, assignment of

		geographical distribution For the soil of Iraq (practical) c7: See the types of tillage and their benefits	factors and their relationship to growth Field crops (practical) Soil service operations	methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	homework, discussions, student attendance
5 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 3 practical	(theoretical) 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	(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	(theoretical)	(theoretical)	(theoretical)	Short exams,

	3practical	a3: Known as the photoperiod (practical) b9: Explains methods of planting seeds	The relationship of environmental factors to growth Field/light crops (practical) application of planting seeds Different crops depending on date Cultivate it	Auditory 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
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 (practical) b10: 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	(theoretical) b10: He enumerates the methods that can be followed	(theoretical) The relationship of environmental	(theoretical) Auditory methods.	Short exams, assignment of homework,

		with little effect Erosion, especially in agricultural areas (practical) c9: Shows the types of weeds	factors to growth Field crops /air (practical) Jungle plants and how to Fight it	Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	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 (practical) c10 : 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	(theoretical) b5: Enumerate the points to be taken into consideration	(theoretical) Agricultural cycle	(theoretical) Auditory methods.	Short exams, assignment of homework,

		Agricultural cycle design (practical) b12 : Chooses the appropriate date for operations harvest	(practical) Ripening, harvesting and threshing	Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical) Assigning tasks and reporting.	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) b13 : 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

No.	Calendar methods	Calendar date (week)	Degree	% Relative weight
1	report 1	week 4	2.5	2.5
2	report2	week 5	2.5	2.5
3	Quiz (1)	week 6	2	2
4	Quiz (2)	week 14	2	2
5	Quiz (3)	week 15	1	1
6	exam(1)	week 6	7.5	7.5
7	exam(2)	week 11	7.5	7.5
8	exam theoretical final	exam theoretical final	40	40
9	practical field project	week 15	5	5
10	evaluation field	weeks 3, 5	2	2
11	Quiz practical (1)	week 1	1	1
12	Quiz practical (2)	week 4	0.5	0.5
13	Quiz practical (3)	week 14	1	1
14	question and homework	weeks13,12,11,10,9,8,6	5.5	5.5
15	exam practical final	exam theoretical final	20	20
	total	100	%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. Mohammed Akram Abdulateef

Practical subject teacher : ISLAM ABDULSATTAR ASMAIR

Chairman of the Scientific Committee :

Head of the Field Crops Department :