Course Description Form

Course Name:

Weeds and methods of control

Course Code:

WECO303

Semester / Year:

2023 / 2024 autumn

Description Preparation Date:

1/2/2024

Available Attendance Forms:

Attended

Number of Credit Hours (Total) / Number of Units (Total)

(75 hours) (3.5 units)

Course administrator's name (mention all, if more than one name)

Name: Dr. Mohammed Akram Abdulateef Email: mohammed.akram1985@uomosul.edu.iq

Course Objectives

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Enabling the student to understand, understand and identify the nature of the life of the bush, the benefits and harms of the bush, ways to combat them, including agricultural, mechanical, biological and chemical methods, in addition to an extensive study on the totals of herbicides and methods of adding them to combat the weeds

Teaching and Learning Strategies

Strategy

- 1- Education strategy teamwork planning.
- 2- Brainstorming education strategy and discussions.
- 3- E-learning strategy.

Course Structure

Week	Hours	Required	Unit or subject	Learning method	Evaluation method
		Learning	name		
		Outcomes			
1	2Theoretical 3 practical	Theoretical: A1 b1: Defines, enumerates and explains the jungles, their benefits and their harms Practical: B6: The division and classification of jungle plants is counted	Theoretical: The weed and its definitions Practical: The weed name	(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: A2: Defines the regionalization and enumerates the qualities related to the	Theoretical: Localizing weed plants and ways to spread them Practical: The regional	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom. (practical)	Short exams, assignment of homework, discussions, student attendance

		regionalization and the means of the spread of the weed Practical: B7: Explains the characteristics of the weed plants related to adaptation		Assigning tasks and reporting.	
3	2Theoretical 3 practical	Theoretical: B2a3: Defines the life antibodies (known the life antibodies, the number of places where the anti-life materials are present) Practical: B8: Enumerates the different breeding methods of weed plants	Theoretical: The competition Practical: Reproduction	(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	2Theoretical 3 practical	The theoretical A4 b3: Describes the ways of entry of antibiotic substances (explain the ways of entering the antibiotic substances into the environment, explain the methods of washing and volatilization) Practical: C5: Explains the effect of stillness on weed plants	Theoretical: biological control Practical: Stillness	(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: A3 b2: c1 uses resistance methods (select the best methods used to reduce the	Theoretical: Methods to control the weed Practical:	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom.	Short exams, assignment of homework, discussions, student attendance

		1 C	1	(1 · 1 · 1 · 1 · 1 · 1 ·	1
		spread of	Cattina	(practical)	
		weedes) Practical:	Getting to know the	Assigning tasks and reporting.	
			weed	reporting.	
		C6: Explains	weed		
		the preventive			
		means to			
		reduce the			
		spread of the			
-	OTDI .: 1	weed	TD1 .: 1	(1 (1)	C1 .
6	2Theoretical	Theoretical:	Theoretical:	(theoretical)	Short exams,
	3 practical	C2: Employs	3.6.1.1.6	Auditory methods.	assignment of
		means to	Methods of	Style of writing on the	homework,
		reduce the	resistance	blackboard.	discussions, student
		spread of weeds		Direct dialogue style.	attendance
		(use	Practical:	Electronic class	
		mechanical and		Google Classroom.	
		agricultural	The qualities	(practical)	
		methods in	of the weed	Assigning tasks and	
		eliminating	quantity	reporting.	
		weeds scattered			
		in agricultural			
		fields)			
		Practical:			
		B9:			
		Demonstrates			
		the quantitative			
		qualities of the			
		weed			
7	2Theoretical	Theoretical:	Theoretical:	(theoretical)	Short exams,
	3 practical	B5: Writes	a	Auditory methods.	assignment of
		about the	Chemical	Style of writing on the	homework,
		history of	control	blackboard.	discussions, student
		chemical		Direct dialogue style.	attendance
		control and the	Practical:	Electronic class	
		benefits of	1	Google Classroom.	
		control (write a	weed	(practical)	
		report on	herbicides	Assigning tasks and	
		chemical		reporting.	
		control			
		explaining how			
		herbicides were			
		used for the			
		first time,			
		explain the			
		benefits of			
		chemical			
		control)			
		Practical:			
		B10, d4:			
		illustrates the			
		division of			
		weed			
		herbicides	-		
8	2Theoretical	Theoretical:	Theoretical:	(theoretical)	Short exams,
	3 practical	C3: Shows the		Auditory methods.	assignment of
		determining	Chemical	Style of writing on the	homework,
		factors of the	aggregates	blackboard.	discussions, student
		lethal effect		Direct dialogue style.	attendance
		(among the	Practical:	Electronic class	
		determining		Google Classroom.	
I					
		factors of the	The qualities	(practical)	

		killer effect of any chemical compound) Practical: B11: Demonstrates the physical and chemical qualities of weed herbicides	of weed herbicides	Assigning tasks and reporting.	
9	2Theoretical 3 practical	Theoretical: C4: herbicide permeability from leaves (try during the Chemical Control Department places of permeability of herbicides) Practical: D5: Determines the volume of the spray solution	Theoretical: Herbicide absorption and transfer Practical: Spraying solutions	(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: B6,c5: Schedules the transport of herbicides (the herbicide transport table from the fall of the herbicide drop to its arrival in the killing areas) Practical: B12: Shows the types of births and their uses	Theoretical: Herbicide absorption and transfer Practical: The sprayers	(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: D1: Determines the types of optional (Select the type of optionality when spraying herbicides on wheat plants and not affected, select the type of optionality when noticing the impact of broad-leaf bush plants and served the	Theoretical: Elective Practical: Elective	(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

	T	1		T	T
		impact of narrow-leaf plants) Practical: B13: Distinguishes the optional types of herbicides			
12	2Theoretical 3 practical	Theoretical: D2: explains the morphological, physiological optional (explain how the herbicide is transformed within the plant, explain the optional morphological mechanism in plants) Practical: B14: Measures the sustainability of the herbicide solution in the soil	Theoretical: Elective Practical: Sustainability	(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: D3: Explains the relationship of herbicides and the environment (explanation of the relationship of herbicides to the environment in terms of the date of addition and concentration of the herbicide) Practical: :C7 tests the methods of transport of the herbicide within the soil	Theoretical: Weed and epidemic herbicides Practical: Transportation and preparation of herbicides	(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: E1: Verifies the existence of sustainability (he investigates the cause of sustainability of	Theoretical: Sustainability Practical: Field visit	(theoretical) Auditory methods. Style of writing on the blackboard. Direct dialogue style. Electronic class Google Classroom.	Short exams, assignment of homework, discussions, student attendance

15	2Theoretical 3 practical	herbicides in soil or on plant parts) Practical: E3: Documents the various weed scenes Theoretical: E2: Measures the retention of herbicides in the soil (measure the duration of retention of the herbicide in the soil and do you think that there are factors related to its effective survival in the soil) Practical: E4: measures the amount of herbicide	Practic	nability	(practical) Assigning tas reporting. (theoretical) Auditory met Style of writin blackboard. Direct dialogic Electronic cla Google Classis (practical) Assigning tas reporting.	hods. ng on the ne style. ss room.	Short exams, assignment of homework, discussions, student attendance
		needed to combat					
Course Ev	/aluation	comour					
No.	Calendar method	ls	Calenda	ır date (w	reek)	Degree	Relative weight%
1	1report		week 4	reek 4		2.5	2.5
2	2 report		week 5		2.5	2.5	
3	(1) Quiz		week 6		2	2	
4	(2) Quiz	(2) Quiz		4		2	2
5	(3) Quiz		week 1	5		1	1
6	(1) exam					7.5	7.5
7	(2) exam			1		7.5	7.5
8	exam theoretical f	final	exam theoretical final		40	40	
9	practical field pro		week 15		5	5	
10	evaluation field	,	weeks			2	2
11	(1) Quiz practical		week 1			1	1
12	(2) Quiz practical	1	week 4			0.5	0.5
13	(3) Quiz practica	1	week 1	week 14		1	1
14	question and hor		6,8,9,10	6,8,9,10,11,12,13 weeks		5.5	5.5
15	exam practical fin		exam theoretical final		20	20	
	total		100		%100	%100	
Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources)				the basics of Weeds and methods of control . Barbara D. Booth & Clarence J. Swanton AND Stephen D. Murphy.2003.Weed Ecology in			Swanton Veed Ecology in
				Natural and Agricultural Systems - Robert L. Zimdah / 2007.Fundamentals of Weed Science / OMAS J. MONACO & STEPHEN C. WELLER AND			

	FLOYD M. ASHTOM. 2002.WEED SCIENCE
Recommended books and references (scientific journals,	https://www.tjas.org/index.php/tas
reports)	
Electronic References, Websites	https://magri.mosuljournals.com/ - https://www.tjas.org/index.php/tas

Theoretical subject teacher: Dr. Mohammed Akram Abdulateef

Practical subject teacher: ISLAM ABDULSATTAR ASMAIR

Chairman of the Scientific Committee:

Head of the Field Crops Department