

Course Description Form

Course Name:					
Weeds and methods of control					
Course Code:					
WECM303					
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 ISLAM ABDULSATTAR ASMAIR					
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Course Objectives					
Course Objectives		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		<p>1- Education strategy teamwork planning.</p> <p>2- Brainstorming education strategy and discussions.</p> <p>3- E-learning strategy.</p>			
Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theoretical 3 practical	Theoretical: a1: Defines, enumerates and explains the jungles, their benefits and their harms Practical: b5: 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: b6: Explains the characteristics of the weed plants related to adaptation		Assigning tasks and reporting.	
3	2Theoretical 3 practical	Theoretical: b1: Defines the life antibodies (known the life antibodies, the number of places where the anti-life materials are present) Practical: b7: 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 b2: 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: 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 (practical)	Short exams, assignment of homework, discussions, student attendance

		spread of weeds) Practical: c6: Explains the preventive means to reduce the spread of the weed	Getting to know the weed	Assigning tasks and reporting.	
6	2Theoretical 3 practical	Theoretical: c2: Employs means to reduce the spread of weeds (use mechanical and agricultural methods in eliminating weeds scattered in agricultural fields) Practical: b8: Demonstrates the quantitative qualities of the weed	Theoretical: Methods of resistance Practical: The qualities of the weed quantity	(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 3 practical	Theoretical: b3: Writes about the history of chemical control and the benefits of control (write a report on chemical control explaining how herbicides were used for the first time, explain the benefits of chemical control) Practical: b9: illustrates the division of weed herbicides	Theoretical: Chemical control Practical: weed 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
8	2Theoretical 3 practical	Theoretical: c3: Shows the determining factors of the lethal effect (among the determining factors of the killer effect of	Theoretical: Chemical aggregates Practical:	(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

		any chemical compound) Practical: b10: Demonstrates the physical and chemical qualities of weed herbicides	The qualities 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: d4: 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: b4: Schedules the transport of herbicides (the herbicide transport table from the fall of the herbicide drop to its arrival in the killing areas) Practical: b11: 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 impact of	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

		narrow-leaf plants) Practical: b12: 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: b13: 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 herbicides in	Theoretical: Sustainability Practical: Field visit	(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

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		soil or on plant parts) Practical: e3: Documents the various weed scenes		Assigning tasks and reporting.	
15	2 Theoretical 3 practical	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 needed to combat	Theoretical: Sustainability Practical: Scientific visit	(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

Course Evaluation

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

Learning and Teaching Resources

Required textbooks (curricular books, if any)	the basics of Weeds and methods of control
Main references (sources)	Barbara D. Booth & Clarence J. Swanton AND Stephen D. Murphy. 2003. Weed Ecology in Natural and Agricultural Systems - Robert L. Zimdahl / 2007. Fundamentals of Weed Science / OMAS J. MONACO & STEPHEN C. WELLER AND FLOYD M. ASHTON. 2002. WEED SCIENCE

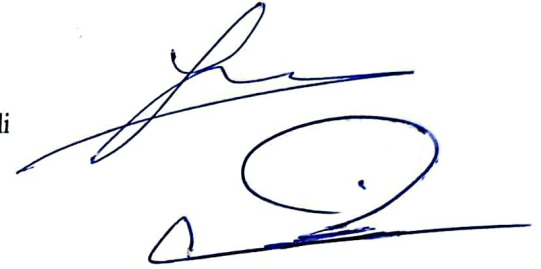
Recommended books and references (scientific journals, reports...)	https://www.tjas.org/index.php/tas
Electronic References, Websites	https://magri.mosuljournals.com/ - https://www.tjas.org/index.php/tas

Theoretical subject teacher : Dr. Mohammed Akram Abdulateef



Practical subject teacher : ISLAM ABDULSATTAR ASMAIR

Chairman of the Scientific Committee : Dr. Juhina Idrees Mohammed Ali



Head of the plant protection Department : Dr. Firas kadhim Aljuboori

