Course description of oil and sugar crops

1. Course Name:
Oil and sugar crops
2. Course Code:
OISC237
3. Semester / Year:
Second semester (Spring) 2024–2025
4. Description Preparation Date:
1/2/2025
5. Available Attendance Forms:
My presence
6. Number of Credit Hours (Total) / Number of Units (Total)
2 theoretical hours / 3 practical hours (75 hours) / 3.5 units
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Waleed Khalid Shahatha, Khalil Ibrahim Khalil Email: w.khalid83@uomosul.edu.iq
8. Course Objectives

Course Objectives	• Providing the student with theoretical and practical information on how to follow modern methods for managing oil and sugar crops. • Introducing the student to the importance of oil and sugar crops and the places where they are grown. • Providing the student with theoretical and practical information on managing relevant fields, laboratories and laboratories.
9. Teaching and Learning Strategies	
Strategy	- Interactive lecture - Brainstorming - Dialogue and discussion - Assigning tasks and reporting

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theoretical	a1: Explains the importance of oil crops and their division, and the chemical and natural properties of oils	Oil crops	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions

	3practical	b2: Explains the importance of oil crops and the purpose of cultivating them	Oil crops	Assigning tasks and reporting	
2	2Theoretical	a2: Understands the economic importance of the sunflower and identifies soil service, crop and harvesting processes	Sunflower	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b3: Distinguish between methods of oil extraction	Oil extraction	Assigning tasks and reporting	
3	2Theoretical	a3: He is familiar with the economic importance of sesame and identifies the soil service, crop and harvesting processes	Sesame	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	c1: Explains the parts of the sunflower plant	Sunflower plant	Assigning tasks and reporting	
4	2Theoretical	a4: A film about the economic importance of safflower and outlines the processes of soil service, yield and harvest	Safflower	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	c2: Explains the parts of the sesame plant	Sesame plant	Assigning tasks and reporting	
5	2Theoretical	e1: Aware of the correct and appropriate methods for extracting and separating oil from seeds	Solve problem	Dialogue and discussion	Short exams, assignments, discussions
	3practical	c3: Draws the parts of a field pistachio plant	Groundnut plant	Assigning tasks and reporting	
6	2Theoretical	a5: Understands the economic importance of soybean and identifies soil service, yield, and harvesting processes	Soybean	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b4: Researches the nature of soybean growth	Soybean plant	Assigning tasks and reporting	
7	2Theoretical	a6: A film about the economic importance of Groundnut and outlines the processes of soil service, yield and harvest	Groundnut	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	c4: Examines flax seeds and the method of extracting oil from them	Flax plant	Assigning tasks and reporting	
8	2Theoretical	a7: Understands the economic importance of cotton and identifies soil service, yield, and harvesting processes	Cotton	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b5: The leaf shape is	Safflower	Assigning tasks	

		represented by the safflower plant	plant	and reporting	
9	2Theoretical	e2: He is aware of the most important reasons leading to a decrease in the area and productivity of oil crops	Solve problem	Assigning tasks and reporting	Short exams, assignments, discussions
	3practical	b6: Shows the shape of rapeseed leaves	Rapeseed plan	Assigning tasks and reporting	
10	2Theoretical	a8: He is familiar with the economic importance of linen and its service processes	Flax	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b7: Explains the factors for increasing global sugar production	Sugar crops	Assigning tasks and reporting	
11	2Theoretical	a9: He is familiar with the economic importance of rape and its service operations	Rapeseed	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	b8: List the parts of the sugar cane plant	Sugar cane	Assigning tasks and reporting	
12	2Theoretical	a10: He is familiar with the economic importance of castor oil and its service operations	Castor	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	d1: Extracts the principles on which sugar beet varieties are tested	Sugar beet	Assigning tasks and reporting	
13	2Theoretical	a11: Learn about sugar crops, become familiar with the economic importance of the sugar beet crop, and determine the processes of soil service, yields, and harvesting.	Sugar crops (sugar beet)	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	d2: A report on oil crops and sugar crops and training on how to extract oil from seeds of oil crops and distinguishing seeds of oil crops from the rest of the seeds of other crops.	Report and discuss	Assigning tasks and reporting	
14	2Theoretical	a12: Understands the economic importance of the sugarcane crop and identifies soil service, yield and harvesting processes	Disease and Sugar cane	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	e3: He is aware of the most important reasons leading to a decrease in the area and	Solve problem	Assigning tasks and reporting	

		productivity of sugar crops			
15	2Theoretical	b1: Shows the steps for manufacturing sugar in the factory	Sugar	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	e4: Introducing the student to oil and sugar plants and familiarizing him with the plant procedures, the oil extraction device, and how to extract oil in the laboratory	Solve problem	Assigning tasks and reporting	

Course Evaluation

Sequence	Calendar methods	Calendar date (week)	Class	Relative weight %
1	Report 1	fourth week	2.5	2.5
2	Report 2	fifth week	2.5	2.5
3	Short test (1) Quiz	sixth week	2	2
4	Short test (2) Quiz	fourteenth week	2	2
5	Short test (3) Quiz	fifteenth week	1	1
6	Semester test (1)	sixth week	7.5	7.5
7	Semester test (2)	eleventh week	7.5	7.5
8	Final theoretical test	Final semester exams	40	40
9	Practical field project	fifteenth week	5	5
10	Field evaluation	third and fifth week	2	2
11	Practical short test (1) Quiz	first week	1	1
12	Short practical test (2) Quiz	fourth week	0.5	0.5
13	Short practical test (3) Quiz	fourteenth week	1	1
14	Live drawings and homework	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
15	Final practical test	Final semester exams	20	20
	The total	100	100%	100%

11. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Oil and sugar crops: Dr. Tawakkol Younis Rizk Hikmat Abdul Ali.
Main references (sources)	Oil crops: Dr. Hussein Awni Tayfour and Dr. Rizgar Hamdi Rashid.
Recommended books and references (scientific journals, reports…)	https://magrj.mosuljournals.com/?lang=ar

Electronic References, Websites	University of Mosul e-learning website

Theoretical subject teacher
Dr. Waleed Khalid Shahatha

Practical subject teacher
Khalil Ibrahim Khalil

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