

Course Description Form of Sugar and Oil Crops

Course Name
Sugar and Oil Crops
Course Code
SUGO207
Semester/Year
First / 2025
Date of preparation of this description
15 January 2025
Available attendance forms
Full-time (theoretical lecture and practical lecture) weekly
Number of Credit Hours (Total)/ Number of Units (total)
2 theoretical hours and 3 working hours per week for 14 weeks, the number of units is 3.5 units
Name of the course administrator (if more than one name is mentioned)
Name: Dr. Dania Salman Qahraman                      Email: daniasalman@uodiyala.edu.iq Nabil Ibrahim
Course Objectives

Objectives of the course :	<p>1-The science of oil and sugar crops examines the most important crops spread in Iraq and the world and the extent of their usefulness, whether as food or Forage .</p> <p>2- Studying the most prevalent oil and sugar crops in Iraq and some countries of the region .</p> <p>3- Splitting the plants of oil and sugar crops according to their Biology cycle</p> <p>4- Knowing the methods of breeding oil and sugar crops.</p> <p>5- Studying the impact of oil and sugar crops on the economic returns.</p> <p>6- Knowing which oil and sugar crops are highly</p>
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### Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> <li>• In-person lectures for 14 weeks, interspersed with two monthly exams, daily exams and scientific reports</li> </ul>
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### Theoretical

#### Course Structure

Week	Credits	Intended Learning Outcomes	Module / Course Name or	Teaching*method	Evaluation Method
1	2	Oil crops , their economic importance, the most important crops represented by oils and their types	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
2	2	Sunflower, methods of cultivation and soil suitable for it , when to plant it and serve the crop and harvest and the pests that affect it	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
3	2	Sesame, its methods of cultivation, its economic	Sugar and Oil Crops	Explanation and model presentation and lecture	Examinations Daily and Monthly Final and Reports

		importance, the appropriate soil for it, and the service of the crop and its harvest		Brainstorming Debating and discussing Brainstorming	day
4	2	Cotton, its methods of cultivation, appropriate soil, crop service, pound and pests that infect it	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
5	2	The field's pistachios, its importance, the methods of cultivation, the appropriate soil for it, its harvest and the pests that affect it	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
First Quarter Examination					
6	2	Soybeans, its importance, methods of cultivation, soil, its suitability, harvesting and pests that affect it	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
7	2	Castor and safflower, their importance, methods of cultivation and soil suitable for them and their service	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
8	2	Linen, Favorable Environment, Tempering, Botanical Description, Varieties	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day

9	2	Ridge of economic importance of origin, species and varieties , plant description, suitable environment	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
10	2	Historical overview of sugar crops, geographical distribution, suitable soils, methods of cultivation and quantity of seeds	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
11	2	Soil and crop service operations, which include hoeing, fertilization, slippers, patching, sugar cane breeding methods, and its genetic types	Sugar and Oil Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
			Second Quarter Examination		
12	2	Chemical Components of Sugarcane Plant Weed control, Disease and Insect Control Operations, Maturation, Harvesting and Raw Sugar Production	Sugar and oil crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
13	2	Sugar beet, its economic importance, geographical distribution, the development of	Sugar and oil crops	Explanation and model presentation and lecture Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports day

		sugar beet cultivation, the most important problems of its cultivation , its stages of growth and methods of breeding		Brainstorming	
14	2	Soil and crop service factors from the date and methods of planting and classification of seeds and crop service processes, which include hoeing, weeding, fertilization, irrigation, harvesting and agricultural cycles	Sugar and oil crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
15	2	White and yellow sugary corn and their methods of cultivation and importance	Sugar and oil crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day

Practical Part					
Week	Credits	Intended Learning Outcomes	Subject	Learning Method	Evaluation Method
1	3	The chemical composition of oil, the manufacture of vegetable oils, the importance of vegetable oils	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
2	3	Botanical description of sunflower, division and composition of dietary oils and fats, qualities of	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and

3	3	Botanical description of sesame plant, fatty acids and their types, qualities of sesame oil	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
4	3	Botanical description of cotton, its oil recipes and methods of extraction	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
5	3	Botanical description of field pistachios, its oil recipes and methods of extraction	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
6		1st Month			
7	3	Vegetarian Description of Soybeans and Oil Recipes	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
8	3	Botanical description of them and methods of extracting their oil	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
9	3	Botanical description of the plant and methods of oil extraction and its qualities	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
10	3	Botanical Description, Oil Extraction Methods and Recipes	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
11	3	Sugarcane plant, its importance, species and areas of cultivation, plant description of sugar cane	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports
12	3	Botanical description of leaves and inflorescence and the conditions that must be met to start flowering the plant	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports
			Second Exam		
13	3	The process of extracting sugar from the sugar cane plant and the stages of its manufacture	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports

					day
14	3	Botanical description of sugar beets, types of seeds	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports day
15	3	Tools used in controlling agricultural pests, Weeds and harvesting crops	Sugar and Oil Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports day

Course Evaluation	
Daily and monthly exams, reports and student effectiveness during the lecture .	
Learning and Teaching Resources;	
Required textbooks ( methodology if any )	Oil and Sugar Crops, Nasser Hussein Safar, 1985
Key References (Sources)	Recent articles from the Internet, specialised scientific journals, the Journal of Agricultural Sciences - Iraq and the Virtual Library.
Recommended supporting books and references (scientific journals,	Iraqi academic scientific journals
E-References, Websites	crop Science Society Of America Library Genesis