

Description of the course of the Forage Crops

Course Name	
Forage Crops	
Course Code	
FORC304	
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)	
Dr. Marwan Sami Saeed Email: marwansami@uodiyala.edu.iq	
Inas Abdul Rahim Khalaf	
Course Objectives	
Objectives of the course :	<ol style="list-style-type: none"> 1. Identify the importance of Forage crops and methods of cultivation, management, tamping or cutting them 2- Knowing the types of Forage crops and where they originate 3-Knowledge of the processes related to soil service, including plowing, smoothing, leveling and dividing the land and irrigation channels 4-Knowledge of the processes related to crop service, such as methods of planting, appropriate quantities of seeds, fertilization, dates of tampon and appropriate

Teaching and Learning Strategies

Strategy	• In-person lectures for 14 weeks, interspersed with two monthly exams, daily exams and scientific reports
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Theoretical

Course Structure

Week	Credits	Intended Learning Outcomes	Module / Course Name or	Teaching*method	Evaluation Method
1	2	Historical overview of Forage crops and some important terms for Forage crops	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
2	2	The importance of Forage crops and the division and classification of Forage crops	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
3	2	Economic importance and agricultural management of legumes, including alfalfa	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
4	2	The economic importance and agricultural management of the Egyptian clover crop The economic importance and agricultural management of Hartman,	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day

		Handcock and Kurt			
5	2	Economic importance and agricultural management of Forage cowpea crops	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
6	2	Economic importance and agricultural management of kashoon and clover	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
First Quarter Examination					
7	2	Economic importance and agricultural management of fenugreek, livestock and soybean crops	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
8	2	Economic importance and agricultural management of grass crops, including barley and oats	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
9	2	Economic importance and farm management of maize and sorghum	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
10	2	Economic importance and agricultural management of millet and Sudanese cannabis crops	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day

11	2	Feed mixtures – types – advantages and benefits	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
12	2	Forage Crop Breeding	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
13	2	Feed Manufacturing – Al-Drees	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
			Second Quarter Examination		
14	2	Silage Feed Manufacturing	Forage Crops	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
15	2	Mechanization of Forage crops	Forage 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	Unit or Topic Name	Learning Method	Evaluation Method

1	3	Distinguish seeds and plants of Forage crops.	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
2	3	Alfalfa , Botanical Description, Planting Methods, Planting Dates	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
3	3	Egyptian Alfalfa, Botanical Description, Planting Methods	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
4	3	Clover (sweet alfalfa) , plant description, planting	Forage Crops	Case history Brainstorming Debating and	Examinations Daily and Monthly
5	3	Mash. Hartmann , Botanical Description,	Forage Crops	Case history Brainstorming Debating and	Examinations Daily and Monthly
6			Forage Crops		
7	3	Ash Sha'ir Oats , Botanical Description, Planting Methods,	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
8	3	Popcorn. Sorghum, Botanical Description, Planting Methods, Planting Dates,	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports
9	3	millet Rye , Botanical Description, Planting Methods,	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
10	3	Qualitative evaluation of Forage crops, and	Forage Crops	Case history Brainstorming Debating and	Examinations Daily and Monthly
11	3	How to manufacture a thresher	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
12			Second Exam		
13	3	How to make silage	Forage Crops	Case history Brainstorming Debating and	Examinations Daily and Monthly

14	3	Reviewed by	Forage Crops	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
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Course Evaluation	
Daily and monthly exams, reports and student effectiveness during the lecture .	
Learning and Teaching Resources;	
Required textbooks (methodology if any)	1- Forage and pasture crops, d. Ramadan Tikriti et al ., 1982 2- forage crops , 2020 3- forage handbook , 2022 .
Key References (Sources)	Recent articles from the Internet, specialized 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 Forage and grasses The field crops _ principles and a practice Agronomy journal. . Websites, Articles, FAO reports .