

Republic of Iraq

The Ministry of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Horticulture and
landscaping
Stage: 2
Lecturer name: . Hiba Ahmed Jawad
Scientific title: Assistant prof
Qualification: Nurseries and propagation
Place of work: College of Agriculture

Flow up of implementation celli pass play

Course Instructor	Dr. Hiba Ahmed Jawad				
E-mail	Hibajawad@uodiyala.edu.iq				
Title	Nurseries and propagation				
Course Coordinator	Spring				
Course Objective	The subject provides information concerning the fundamental principles involved in plant propagation, and server as a manual that describes useful techniques for propagation plants also it provides knowledge of the different plants and various possible methods by certain plants can be propagated				
Course Description	Unit 3.5: 5 hours				
Textbook	Type here the textbook (title,author,edition,publisher,year)				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(25%)	(10%)	(5%)	20%	(40%)
General Notes	Final grade 100%				

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the week	the date	Topics Covered	Practical Part	Notes
1		. The nursery, the importance of establishing a nursery, the conditions for establishing a nursery.	Types of nurseries, division of nurseries	
2		Sexual propagation (propagation by seeds). Dormancy in the seed, the transactions that end seed dormancy,	Structures used in plant propagation, greenhouses, shades, cold and heated	
3		Treatments that encourage seed germination, treatments with cold and humidity (cold		
4		Cellular basis of seed propagation	production, seed treatments before plantings of media	
5		Asexual propagation of plants (vegetative propagation),	Propagation by seeds, seed production, seed treatments before Seed	
6		Methods of propagating plants asexually, advantages and disadvantages of asexual propagation, vegetative foundations for asexual	Exam	
7		Physiological and anatomical foundations of vegetative propagation, vegetative lineage,	Propagation using pens, how to prepare pens	
8		Exam	Treating pens to increase the rooting	
9		Multiplication by specialized parts, multiplication	Transplanting, individualizing	
10		Tubers, crabs, propagules, natural structures suitable for propagating plants vertically.	Uprooting fruit tree seedlings, how to uproot, timing of uprooting, treatment	
11		Machines and tools used in nurseries	Propagation by specialized parts, propagation by tubers, propagation by cuttings	
12		Semester 1st exam	Propagating crabs, how to uproot and separate crabs, growing crabs in a	
13		Studying the most important service operations, such as irrigation and fertilization	Exam	
14		Machinery and tools used in nurseries	A visit to some governmental or private nurseries, depending on what is available.	
15		Micropropagation of plants, propagation by tissue	Visit to the tissue and medium preparation	

Teacher's signature

Assistant prof. Dr. Hiba Ahmed Jawad

15/1/2025

Dean's signature

Prof. Dr. Raaed Ibrahim Khalil

15/1/2025