Republic of Iraq

The Ministry of Higher Education

& Scientific Research



University: Diyala College: Agriculture Department: Horticulture and landscaping Stage: 3 Lecturer name: Aziz Mahdi Abd Scientific title: Horticultural plant breeding Qualification: Ph.D Place of work: College of Agriculture

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Course Instructor	Aziz Mahdi Abd				
E-mail	azizmabd@uodiyala.edu.iq				
Title	Horticultural plant breeding				
Course Coordinator	The first chapter \ Stage 3				
Course Objective	Teaching and training the student on the most important scientific methods to develop and improve varieties of horticultural crops				
Course Description	Identifying plant reproductive systems - sterility and incompatibility - types of genetic action and hybrid strength - breeding and improving self-, cross-pollinated and vegetatively propagated horticultural crops. Improved resistance to environmental stress and pests.				
Textbook	Breeding horticultural plants by Dr. Ahmed Abu Zaid Akl Genetic improvement of fruits and vegetables by Dr. Khaled Al-Mohammed and others Plant Breeding and Genetics in Horticulture by Dr. C.North				
Course Assessments	Theoretical semester tests %	Practical semester tests %	Quizzes %	Final practical test %	Final Exam %
	(25%)	(10%)	(5%)	20%	(40%)
General Notes	Final grade 100%				



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week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Introduction to the science of evolution Methods plant breeding science and its related specifications and successful plant .breeders	Identify the tools used in plant breeding experiments	
2		Reproduction systems in .the plant	Life for flowering plants, horticultural	
3		Male infertility and .types	Methods of control in the self- pollination	
4		Lack of sexual self- compatibility and situations and means to .overcome them	Methods of insulation between plants through breeding programs	
5		Genetic variations and their relation to breeding and improving .the plant	Methods of castration in self- pollinated plants and humoral	
6		Inheriting qualitative and quantitative traits and genetic equivalent and some estimate .genetic parameters	Lack of sexual self- compatibility and means to overcome it	
7		Gene duplication and the strength of the hybrid internal and horticultural plant breeding	Divide the plants according to the nature and appreciation rate of vaccination	
8		Genetic improvement of self-pollinated plants	Mutations and their role in horticultural crop breeding	

9	Cannot detect language. Please choose it manually	The most important uses of replication in improving crops Bustnbh
10	Genetic improvement of plants humoral Vaccination	The goals and methods of breeding and improving the family Solanaceae plants - tomatoes, eggplant
11	Complement the genetic improvement of plants humoral Pollination	The goals and methods of breeding and improvement of Cucurbitaceae family - and pumpkins option
12	Methods of breeding .crops Propagated	Tarbah goals and methods and improve family Alqraeih- sophistication and watermelon
13	Genetic improvement of plants through genetic engineering	Breeding aims and methods improve family Alnrjsuh- onion family and pretzels - okra
14	Breeding and genetic improvement using mutations	The aims and methods of breeding and improvement of pomegranate
15	Breeding and genetic improvement to withstand pests and environmental tensile	Mutation aims and methods improve the vines

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Teacher's signature Prof. Dr. Aziz Mahdi Abd 15/1/2025

Dean's signature Prof. Dr. Raaed Ibrahim Khalil 15/1/2025