Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم

University: Diyala
College: Agriculture
Department: Field crops
Stage: 4st
Lecturer name: Nazar S. Ali
Qualification: PhD.
Place of work: Coll. Of Agriculture

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Course Instructor	**Nazar S. Ali**				
E-mail	nazaralzUhairy@uodiyala.edu.iq				
Title	Plant breeding				
Course Coordinator	The second Course				
Course Objective	**Student's education and training on the most important scientific methods to .develop and improve Field crop varieties**				
Course Description	**Recognition Systems in plant breeding - infertility and incompatibility -anwaa and power hybrid genetic -adoption act and improve self- Field crops and humoral vaccination and Propagated .And improvement of the tensile strength and environmental pests**				
Textbook	Bektaş, Fazil 2006. Plant breeding and improvement. College of .Agriculture - University of Baghdad				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(20%)	(15%)	(5%)		(60%)

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بِسْمِ اللَّهِ الرَّحْمَٰنِ الرَّحِيمِ

وزارة التعليم العالي والبحث العلمي

Ministry of Higher Education & Scientific Research

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Course weekly Outline

week	Date	Topics Covered	Practical Part
1	1 st week	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	2 nd week	.Reproduction systems in the plant	Life for flowering plants, Field crops
3	3 rd week	.Male infertility and types	Methods of control in the self-pollination
4	4 th week	Lack of sexual self-compatibility and situations and means to .overcome them	Methods of insulation between plants through breeding programs
5	5 th week	Genetic variations and their relation .to breeding and improving the plant	Methods of castration in self-pollinated plants and humoral
6	6 th week	Inheriting qualitative and quantitative traits and genetic equivalent and some estimate .genetic parameters	Lack of sexual self-compatibility and means to overcome it
7	7 th week	Gene duplication and the strength of the hybrid internal and Field crops plant breeding	Divide the plants according to the nature and appreciation rate of vaccination
8	8 th week	Genetic improvement of self-pollinated plants	Mutations and their role in Field crops breeding
9	9 th week	Cannot detect language. Please .choose it manually	The most important uses of replication in improving crops Bustnbh
10	10 th week	Genetic improvement of plants humoral Vaccination	The goals and methods of breeding and improving the Wheat plants
11	11 th week	Complement the genetic improvement of plants humoral Pollination	The goals and methods of breeding and improvement of Barley plants
12	12 th week	Methods of breeding crops .Propagated	Tarbah goals and methods and improve Corn plants
13	13 th week	Genetic improvement of plants through genetic engineering	Breeding aims and methods improve Fodder crops
14	14 th week	Breeding and genetic improvement using mutations	Laboratory training on genetic engineering applications
15	1 st week	Breeding and genetic improvement to withstand pests and environmental tensile	Laboratory training on mutation development

Instructor Signature
Ass.Prof. Nazar S. Ali
2025/1/15

Dean Signature
Prof. Dr. Raaed Ibrahim Khalil
2025/1/15