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: Aziz Mahdi Abd
Scientific title: Genetic Plant
Qualification: Ph.D
Place of work: College of Agriculture

Flow up of implementation celli pass play

Course Instructor	**Aziz Mahdi Abd**				
E-mail	**azizmabd@uodiyala.edu.iq**				
Title	**Genetic Plant**				
Course Coordinator	**The first chapter \ Stage II**				
Course Objective	**- Teaching students the basics of emerging sciences in horticulture.** **- Teaching students to regulate the reproduction of horticultural plants.** **- Teaching students how to raise types of self-infertility and self-sexual incompatibility.** **- Teaching students how to create the necessary or necessary variations in the electoral process.** **- Teaching students the nature and nature of the specialized subject DN.** **- Teaching applications about the inheritance of sex** **- Teaching students how to draw genetic maps.** **- Teaching students the meaning of genetic mutations and how to create them.** **- Teaching students the principles of genetic engineering**				
Course Description	**Identify the cytological and chemical basis of genetic material, Mendelian inheritance, genetic interaction, multiple alleles, heredity and sex, quantitative inheritance, inheritance of mutations, and clan inheritance.**				
Textbook	**-Basics of genetics by Dr. Adnan Muhammad Hassan Al-Adhari- Quantitative genetics by Dr. Ahmed Abdel Moneim** **-Plant genetics, the practical part, by Dr. Ghassan Ayyash and others** **- An electronic website concerned with plant genetics**				
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 history and evolution of genetics	Identify the materials used in genetic studies and laboratory devices used in genetic experiments	
2		Alsaitologi basis of Mendelian inheritance (cell cycle and division maitoses)	Mendelian genetics (Mendel exercises (on the first law	
3		Alsaitologi supplement the foundation of Mendelian inheritance (maioses division)	Mendelian genetics (Mendel (exercises on the second law)	
4		Mendelian genetics (isolation Act	Box applications Kay (Kay Square) Genetic	
5		Mendelian genetics (free distribution law)	Install necessary to study Alanksamin filamentous and equitable and coded material	
6		The interaction between genes and . cases of excellence	Determine the continuation of the cell cycle phases and phases split filamentous	
7		ISA Q chemotherapy Article genetics and DNA building	Methods to count the number and the study of chromosomal karyotype ((Alchriutayb	
8		Supplement the chemical basis of genetic material (DNA and repeat the .(reproduction and translation	Microscopic method for measuring the lengths of chromosomes	
9		Inheriting multiple alleles	Detection of DNA and RNA	
10		Cannot detect language. Please choose it manually	Estimate Anbatih and life ability to pollen	
11		Link, transit fee and genetic maps	Mutations: achah And structural changes of chromosomes	

12		**Environmental impacts (peripheral) and gene expression**	**Mutations Chemical - mutagens and chromosomal alterations - -**	
13		**Genetic mutations**	**Study the effect of cooling on the chromosomes**	
14		**Quantitative genetics**	**Uses colchicine mutations in events**	
15		**Inheriting peopulation**	**Supplement uses of colchicine in the events of mutations**	

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

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