

Republic of Iraq

The Ministry of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Horticulture and
landscaping
Stage: third
Lecturer name: Dr. Hiba Ahmed Jawad
Scientific title: Assistant prof
Qualification Plant growth regulators:
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	Plant growth regulators				
Course Coordinator	Autumn				
Course Objective	Definition of growth regulators and plant hormones and a definition of some of the terms used in expressions of growth regulators				
Course Description	Unit 3.5: 5 hours				
Textbook	Type here the textbook (title,author,edition,publisher,year)				
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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the week	the date	Topics Covered	Practical Part	Notes
1		. Introduction and definition of some terms	Terminology and definition of some terms	
2		Auxin construction, auxin action mechanism,	Auxin growth stimulants	
3		auxin catabolism	Auxin synthesis	
4		Cytokinins and physiological effects	auxin catabolism, and IAA derivatives	
5		Gibberellin	Gibberellin, structure of gibberellin, its transport process, physiological effects of gibberellin	
6		Alathilayn	Cytokinins Functions of cytokinins and applications of cytokinins	
7		exam	Exam	
8		Abscisic acid and similar compounds	Abscisic acid, physiological effects of abscisic acid	
9		Jasmonic acid	Ethylene,	
10		The role of jasmonic acid in plant protection and resistance	physiological effects of ethylene	
11		Salicylic acid	Chloroplast	
12		Amino acids and polyamines	Exam	
13		Exam	Molecular structure and its relationship to the biological activity of hormones	
14		The role of growth regulators in plant tissue culture	The effect of hormones on plant body cells	
15		The most important ways to add plant growth regulators	Discussion of the report	

Teacher's signature:
Assist. Prof. Dr. Hiba Ahmed Jawad
15/1/2025

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