## **Republic of Iraq**

The Ministry Of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala College: Agriculture Department: Science Field Crops Stage: Fourth Lecturer name: Nadir F. Ali Academic Status: prof. Qualification:ph.D Place of work: College Agriculture/ University of Diyala

## Flow up of implementation celli pass

ir types and defining their effect mportant plant growth regulators.					
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<ul> <li>1- For the student to become familiar with the most important plant growth regulators.</li> <li>2- The student should classify the types of growth regulators according to their groups and physiological effects.</li> <li>3- The student should separate the types of plant growth regulators.</li> <li>4- To know how to use plant growth regulators.</li> </ul>					
Plant growth regulators: theory and application. Written by: A. Dr Hatem Jabbar Attia A. Dr Khudair Abbas Jadou, printed by the Ministry of Higher Education and Scientific Research in 1999.					
Recent articles from the Internet and from specialized scientific journals, the Iraqi Journal of Agricultural Sciences, and the Virtual Library					
Lab					
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## **Course weekly Outline**

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week	Date	Topics Covered	Lab. Experiment Assignments	Notes			
		Theoretical	Lab.				
1	1 st week	Types of plant growth hormones.	Identify plant growth regulators and				
		Types of plant growin normones.	hormones.				
2	2 nd week	Growth hormones and stem	How to prepare different				
		elongation.	concentrations of plant hormones.				
3	3 rd week	Crowth hormonog and arigal	The most important commonly used				
		Growth hormones and apical dominance.	plant growth regulators and method				
			of addition.				
4	4 th week	Flowering and its relationship to	The effect of different concentrations				
			of plant hormones on seed				
		growth hormones.	germination of cereal crops.				
5	5 th week		The effect of different concentrations				
		Growth hormones and photosynthesis.	of plant hormones on seed				
			germination of legume crops.				
6	6 th week		The effect of different concentrations	Exam			
0		Growth hormones and their	of plant hormones on the				
	relationship to the transmissi distribution of nutrients in p	-	germination of seeds of different				
		distribution of nutrients in plants.	crops. Experiment with pots.				
7	7 th week	The effect of growth regulators on seeds.	The effect of different concentrations				
			of plant hormones on the				
			germination of seeds of different				
			crops. Petri dish experiment.				
8	8 th week	ek	The effect of different concentrations				
		The effect of growth regulators on	of plant hormones on the				
		roots.	germination of seeds of different				
			crops. A field experiment.				
9	9 th week The state of the late		Showing films and slides about the				
		The effect of growth regulators on grain crops.	effect of growth regulators on				
			different crops.				
10	10 th week		Recording the observations and				
		The effect of growth regulators on seed legume crops.	percentage of effect used in the sixth				
			to tenth weeks.				
11	11 th week		Taking measurements of				
		The effect of growth regulators on fiber crops.	germination, its speed and				
			percentage, and the length of the				
		<i>j</i>	root and shoot shoots.				
12	12 th week		Follow up on cultivation				
	12 th wook	The effect of growth regulators on oil	experiments and additions with plant				
	crops.	growth regulators, and record					
			Srowin regulators, and record				

			observations and measurements.	
13	13 th week		Follow up on cultivation	Exam
		The effect of growth regulators on	experiments and additions with plant	
		sugar crops.	growth regulators, and record	
			observations and measurements.	
14	14 th week		Follow up on cultivation	
		The future and uses of growth	experiments and additions with plant	
		regulators.	growth regulators, and record	
			observations and measurements.	

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Instructor Signature Prof.Dr Nadir Flih Ali 2025/1/15

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