

Republic of Iraq

The Ministry Of Higher  
Education

& Scientific Research



University: Diyala  
College: Agriculture  
Department: Horticulture and  
landscaping  
Stage: First class  
Lecturer name: Mohammed Ali Zain  
aldain  
Scientific title: Lecturer  
Qualification: Ph.D.  
Place of work: College of Agriculture

### Form of completing the teaching plan for the course

Course Instructor	Mohammed Ali Zainaldain				
E-mail	<a href="mailto:Mohamed.greengold@yahoo.com">Mohamed.greengold@yahoo.com</a>				
Title	Botany General				
Course Coordinator	Firat semester (autumn)				
Course Objective	<ul style="list-style-type: none"> <li>- Introducing students to understanding and understanding the structure of plants, how they work, and how they interact with their environment, including roots, stems, leaves, and flowers.</li> <li>- Study the biological diversity of plants, classify them, and understand the factors that affect their distribution and development.</li> <li>- Study the effect of environmental factors such as light, water and different temperatures on plant growth and development.</li> <li>- Studying the evolution of plants that have characteristics of resistance, increased yield, and improved crop quality.</li> </ul>				
Course Description	Definition of plants, plant parts, plant functions, internal plant anatomy, photosynthesis and respiration processes				
Textbook	Dr. Badri Awaid Al-Ani – 1980				
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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## Course weekly Outline

الملاحظات	المادة العملية	المادة النظرية	التاريخ	الاسبوع
	Plant phenology	A historical introduction to botany and the study of the importance of plants to humans		1
	<b>plants parts</b>	Branches of botany, plant characteristics, types of plants		2
	<b>Seeds and germination</b>	Aggregates of living organisms		3
	<b>The resting and dormant phase of the plant</b>	Plant anatomy (cell, tissue, plant organs).		4
	<b>Root morphology</b>	Inorganic components in plants and their types, organic components in plants and their types		5
	<b>Stem morphology</b>	Plant physiology		6
	<b>Morphology: Laziness of the leg in order</b>	Factors affecting plant growth and development (water, oxygen, carbon dioxide, light, temperature)		7
	<b>Secondary growth Tissue of roots</b>	Photosynthesis, the process of respiration		8
	<b>Aquatic plants</b>	Study of environmental diversity in plant distribution		9
	<b>Seedling plants</b>	Plant reproduction		10
	<b>Halophytes</b>	Nutrients and their effect on plant nutrition		11
	<b>Viruses</b>	Identifying suitable soil for agriculture		12
	<b>Fungi</b>	Study of plant uses		13
	<b>Plant kingdom</b>	Growth regulators		14
	<b>General review of all topics</b>	General review of all topics		15