

Republic of Iraq
The Ministry Of Higher
Education
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Field crops
science
Stage: 4
Name: omer Ali Ahmed
Academic Status: Lucturer
Qualification: Ph.D
Place of work: College of
Agriculture

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Course Instructor	Omar Ali Ahmed				
E-mail	Omerahmed@uodiyala.edu.iq				
Title	Principle of crops production				
Course Coordinator	<i>Spring Course or autumn course</i>				
Course Objective	14 weeks (5 hours each week -Theoretical & practical)				
Course Description	<p>Definition of plant physiology science and water and - nutrients absorption , than photosynthesis and respiration.</p> <p>Plant physiology under biotic and abiotic stress conditions</p>				
Textbook	<p>This Course includes 14 lecture from definition of crop - physiology, water relations and it is effects on crop physiology and absorption of elements. Environmental stress conditions that affected crop physiology and environmental stress tolerance mechanisms.</p>				
Course Assessments	Course degree	Daily test	Lab	Final exam.	Final grade
	35%	15%	10%	40%	100
General Notes	A 14 week attendance lectures, interspersed with two monthly .exams, daily exams & reports				

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week	Data	Topics Covered	Practical Part
1	1 st week	Introduction, definition of crop physiology and the basic of this sciences.	Types of solutions and methods of preparing.
2	2 nd week	Colloidal solutions and systems	Seeds germination under different salty concentrated
3	3 rd week	Water relations, absorption and transfer of water and nutrients	The effects of soil PH on germination and crop growth.
4	4 th week	Photosynthesis	How to measure growth characteristics.
5	5 th week	Respiration	The effects of micro and macro nutrients of crops growth
6	6 th week	Exam 1	Exam 1
7	7 th week	metabolism	The relation between light interception and crop growth
8	8 th week	Biological Nitrogen fixation	Chlorophyll measurements
9	9 th week	Crop nutrition	The effects of plant hormones on the growth of some crops
10	10 th week	Growth and emergence	Absorption and osmosis Diffusion and plasmacytosis.
11	11 th week	Crop yields under stress	A field visit to the department's fields to learn about some physiological phenomena
12	12 th week	Types of stress, their effects, and mechanisms for enduring various types of stress	The department conducted a field visit to learn about some phenomena
13	13 th week	Exam 2	Exam 2

Instructor Signature
Dr.Omer Ali Ahmed
15/1/2025

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