

Republic of Iraq
The Ministry Of Higher
Education
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Field Crops
Stage: three
Lecturer name: Luay Dawood
Farhan
Qualification: lecturer
Place of work: Coll. Of
Agriculture

Flow up of implementation celli pass

Course Instructor	Luay Dawood Farhan				
E-mail	luayfarha@uodiyalay.edu.iq				
Title	Salinity and reclamation of land				
Course Coordinator	Autumn				
Course Objective	The student of the sources and types of salts and classification of local soils and the use of salt tolerant crops and how to reclaim soils				
Course Description					
Textbook	Al-Zubaidi, Ahmad H (1989). Theoretical and practical foundations of salinity. University of Baghdad				
Course Assessments	Term Tests	Laboratory	degree	Final exam	
	20%	20%		60%	
General Notes					

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week	Date	Topics Covered	Practical Part
1	1 st week	Salinity problem and its impact on agricultural production	How to take soil samples
2	2 nd week	Sources of components of salts	Preparation of samples for laboratory study
3	3 rd week	Cycles of salts	Study the effect of salinity on seed germination
4	4 th week	Factors and conditions of composition of soil salinity-affected	Study the effect of salinity on plant growth
5	5 th week	Salt balance in soils	Review some basic concepts about concentrations in saline solutions
6	6 th week	Types of salts accumulated in soils affected by salinity	Methods of extraction of soil solution
7	7 th week	Chemistry of soils affected by salts	Methods of expression of soil salinity
8	8 th week	Classification and designation of soils affected by salinity	The movement of salts in the soil
9	9 th week	Effect of soil salinity on plant growth	Water quality assessment
10	10 th week	The quality of irrigation water	Creating maps of soil salinity
11	11 th week	Methods of controlling soil salinity	Reclamation of salt soils
12	12 th week	Reclamation of salt soils	Reclamation of gypsum soils
13	13 th week	Reclamation of gypsum soils	Reclamation of sandy soils
14	14 th week	Reclamation of sandy soils	Reclamation of sodic soils
15	15 th week	Reclamation of sodic soils	



Instructor Signature
Dr. Luay Dawood Farhan
15/1/2025



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