

Jordan University of Science and Technology Faculty of Agriculture Natural Resources & Environment Department

NR444	Agricultural	Drainage
1417777	/ tgriouitura	Diamage

Second Semester 2019-2020

Course Catalog

2 Credit Hours. This course will cover the introduction in agricultural drainage, types of drainage systems, water flow toward the drainage systems, designing the drainage systems.

Text Book				
Title	Drainage engineering			
Author(s)	James N. Luthin.			
Edition	1st Edition			
Short Name	Ref#1			
Other Information	Wiley Eastern			

Instructor				
Name	Dr. Naji Almefleh			
Office Location	M1L1			
Office Hours	Sun: 09:30 - 10:30 Sun: 11:30 - 12:30 Mon: 10:30 - 11:30 Mon: 11:30 - 12:30 Tue: 08:30 - 09:30 Wed: 10:30 - 11:30			
Email	nmefleh@just.edu.jo			

Class Schedule & Room

Section 1:

Lecture Time: Sun, Tue: 10:30 - 11:30

Room: G2123

Tentative List of Topics Covered				
Weeks	Topic	References		
Week 1	Introduction to agricultural drainage	Chapter 1 From Ref#1		
Week 2	Introduction to agricultural drainage	Chapter 1 From Ref#1		
Week 3	Soil water relation in agricultural drainage	Chapter 2 From Ref#1		
Week 4	Soil water relation in agricultural drainage	Chapter 2 From Ref#1		
Week 5	Hydraulics flow in canals and pipes	Chapter 3 From Ref#1		
Week 6	Hydraulics flow in canals and pipes	Chapter 3 From Ref#1		
Week 7	Water flow measurements in canals and pipes	Chapter 3 From Ref#1		
Week 8	Rainfall - runoff	Chapter 4 From Ref#1		
Week 9	Rainfall - runoff	Chapter 4 From Ref#1		
Week 10	Drainage problems and solutions	Chapter5 From Ref#1		
Week 11	Drainage problems and solutions	Chapter 5 From Ref#1		
Week 12	Static and dynamic flow	Chapter 6 From Ref#1		
Week 13	Static and dynamic flow	Chapter 6 From Ref#1		
Week 14	Designing drainage system	Chapter 7 From Ref#1		
Week 15	Designing drainage system	Chapter 7 From Ref#1		

Relationship to Program Student Outcomes (Out of 100%)								
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9

Date Printed: 2020-12-27