Course Description Form

1. Course Name:

Irrigation & drainage engineering

2. Course Code:

Irrigation & drainage engineering II

3. Semester / Year:

2023-2024 (Semester)

4. Description Preparation Date:

20/3/2024

5. Available Attendance Forms:

Students who are regularly studying

6. Number of Credit Hours (Total) / Number of Units (Total)

120 hours/4 units

7. Course administrator's name (mention all, if more than one name)

Name: Asst. Lect. Saja Ali

Email: saja.a@uow.edu.iq

8. Course Objectives

Course Objecti

- 1.Introducing students to the principles of irrigation and drains engineering
- 2. Introducing students to the basics that are adopted in the field designing irrigation networks and drainage networks
- 3. Definition of the relationship between soil and water
- 4. Identify the mathematical relationships related to water
- consumption
- 6.Learn about different irrigation methods

9. Teaching and Learning Strategies

Strategy

Arouse the student's curiosity about the nature of irrigation and drainage engineering.

- 2. How to use various topics as a basis for the process of designing narrative channels.
- 3. Linking the theoretical side with the practical side and transferring students' minds to realistic applications.

10. Course Structure									
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation				
		Outcomes	name	method	method				
1-5	20	Introducing students to the basic principles of irrigation and draina engineering, as well as the relationship between water and soil, and also	,Consumptive		1.homeworks 2.cours exam 3.Quiz				
		identifying water consumption	aangumntiya	Theoretical + Practical					
6-10	20	Identify water consumption and requirements Irrigation, irrigation efficiency and infiltration	consumptive use, Irrigation requirements and efficiencies, Infiltration and intake						
11-15	20	Identify the different irrigation methods and how Use these methods	Methods of irrigation						
16-20	20	Knowledge of irrigation by border and methods Design and knowledge of	Border irrigatio Furrow irrigation						
		irrigation with furrow And a design method	Basin						
21-25	20	Knowing the nature and method of designing each irrigation In basins, sprinkler irrigation	Irrigation Sprinkler Irrigation.						

26-30	20	Knowing how to design irrigation and drainage networks According to the natural levels of the land As well as knowing the appropriate drainage methods for each area according to its topography	Networks of irrigation and Drainage engineering		1.homeworks 2.cours exam 3.Quiz
-------	----	--	---	--	---------------------------------------

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources Michael A. M., "Irrigation Theory and Required textbooks (curricular books, if any)), Practice" Vikas Publishing House New Delhi, 1981. Chow, V.T. "Open Channel Hydraulics" McGraw-Hill company,1973. Waller,P., Yitayew,M. "Irrigation Main references (sources) Drainage Engineering" Spring International Publishing, 2016 Luthin J.N. "Drainage Engineering", Wil Recommended books and references (scientific Eastern Private Limited, New Delhi 19 journals, reports...) The university's official website, whose Electronic References. Websites address is https://elearning.uowa.edu.iq

