

MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY

FRM-001/00QSP-004

Dec.01.2001

DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING

TENTATIVE TEACHING PLAN (PRACTICAL)

Name of Teacher: Prof. Dr. Ashfaque Memon/Engr. Abdul Qudoos Malano/Engr. Abdul Rafiu

Batch: 20CE (A+B+C+D)

Year: Third **Semester:** 8th

Subject: Irrigation and Drainage Engineering (Pr)

Course Code: CE443

Semester Starting Date: 15-07-2024

Semester Suspension Date: 06-11-2024

Course learning outcomes:


After completion of the “Irrigation and Drainage Engineering (Pr)” course, each student will be able to:

CLO No.	Description	Taxonomy Level	Associated PLOs
3	PRACTICE the field and software experimentation to verify crop water requirements for designing of irrigation scheduling.	P3	5

Course Contents

S. #	TOPICS	CLO's	Lecture Required
1.	To investigate the effect of nozzle size on the radial distribution of water from a Rotary Sprinkler.	3	03
2.	To investigate the effect of pressure on the radial distribution of water from a Rotary Sprinkler	3	03
3.	To investigate the effect of height of riser on the radial distribution of water from a Rotary Sprinkler.	3	03
4.	To determine the Coefficient of uniformity for a drip irrigation system.	3	03
5.	To construct flow net and investigate the seepage flow rate underneath a sheet pile wall.	3	03
6.	To determine uplift pressure on foundation of hydraulic structure.	3	03
7.	To change uplift pressure on foundation of hydraulic structure by changing length of flow lines.	3	03
8.	To reduce or eliminate uplift pressure by providing drainage.	3	03
9.	To measure discharge using Current meter.	3	03
10.	To determine crop water requirement using CROPWAT.	3	03
11.	To study the rainfall-runoff characteristics of multiple storm rainfalls.	3	03
12.	To study the effects of reservoir storage on runoff hydrograph.	3	03
13.	To draw a drawdown curve for a single well in an unconfined aquifer pumping at a constant discharge.	3	03
14.	To draw a drawdown curve for a single well in a confined aquifer pumping at a constant discharge.	3	06

15.	To perform Open Ended Lab	3	03
	TOTAL		48



Signature of Teacher:

Dated: 06-09-2024

Remarks by DMRC: **APPROVED**

Signature of Chairman: 

Dated: 18-09-2024