

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. Ashfaq Pathan /Engr. Abdul Latif Soomro

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

Year: Third **Semester:** 6th

Subject: Environmental Engineering-I

Course Code: CE351

Semester Starting Date: 03-07-2023

Semester Suspension Date: 20-10-2023

Course learning outcomes:

After completion of the “Environmental Engineering-I” course, each student will be able to:

CLO No.	Description	Taxonomy Level	Associated PLOs
3	PRACTICE various laboratory and field test to obtain physical, chemical and biological properties of water	P3	4

Course Contents

S. #	TOPICS	CLO's	Lecture Required
1.	Introduction of Environmental Engineering lab and HSE measures	3	03
2.	Sample preparation techniques including Dilution Filtration/Centrifugation, Solid phase extraction, Digestion and Distillation.	3	03
3.	To determine the Turbidity contents of given sample of water	3	03
4.	To determine the Suspended Solids/Non-filterable residue in sample of water	3	03
5.	To prepare different water samples of varying pH and Total Dissolved Solids (TDS) and to determine pH, TDS and electrical Conductivity (EC) of prepared water samples	3	06
6.	To determine the Taste and Odour value of given water sample	3	03
7.	To determine the Acidity of given sample of water	3	03
8.	To determine the Alkalinity of given sample of water	3	03
9.	To determine the Hardness of given sample of water	3	03
10.	To determine the Chloride Concentration in given sample of water	3	03
11.	To determine the Sulphates in given sample of water	3	03
12.	To determine the Total Chlorine Concentration in given sample of water	3	03
13.	Determination of Jar Test (Alum dose selection) for turbid water	3	03
14.	Determination of Dissolved Oxygen (D.O)	3	03
15.	Open ended Lab	3	03
	TOTAL	-	48

Signature of Teacher:



Dated: 21-06-2023

Remarks by DMRC: APPROVED

Signature of Chairman:



Dated: 01/08/2023