

# **MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

FRM-001/00QSP-004

**DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING**

## **TENTATIVE TEACHING PLAN**

Dec.01.2001

Name of Teacher: **Dr. Rehan Hakro / Engr. Ghulam Mehdi**

Batch: **23CE (A+B+C+D)**

Year: **1<sup>st</sup>** Semester: **2<sup>nd</sup>**

Subject: **Engineering Geology (Practical)**

Subject Code: **CE129**

Term Starting Date: **18-12-2023**

Term Suspension Date: **18/04/2024**

### **Course learning outcome:**

After completion of the course, each student will be able to:

<b>CLO No.</b>	<b>Description</b>	<b>Taxonomy level</b>	<b>Linking to PLOs</b>
3	RECOGNIZE rocks/minerals, folds and faults and draw cross sections and landslide models.	P1	4

<b>S. No</b>	<b>Topics</b>	<b>Lectures Required</b>
1.	Introduction to the Engineering Geology Laboratory and HSE (Health, Safety and Environment) measures	03
2.	To determine the hardness of minerals using Moh's scale.	03
3.	To determine the lustre streak of minerals.	03
4.	To determine the compressive strength of rocks using Schmitt hammer.	03
5.	To determine the unconfined compressive strength of rocks in UTM machine.	03
6.	To determine the tensile strength of rocks in UTM machine.	03
7.	To determine the slake durability index (Weathering) of rocks.	06
8.	To determine the presence of carbonates in rocks using acid test.	03
9.	To observe the folds using sand box.	03
10.	To observe the different types of faults using sand box.	03
11.	To determine the dip and strike of geological structure on site.	03
12.	To prepare the various slopes in landslide Physical Model.	03
13.	To observe the relationship between rainfall intensity and erosion using landslide physical model.	03
14.	To prepare drawing of Cross Sections from Geological maps.	03
15.	To perform an open-ended lab.	03
	Total lectures	48

Signature of Teacher:



Dated: 13-12-2023

Remarks by DMRC: **APPROVED**

Signature of Chairman:



Dated: 21/12/2023