

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

FRM-001/00QSP-004

DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING

TENTATIVE TEACHING PLAN

Dec.01.2001

Name of Teacher: **Engr.Maroosha Larik / Engr. Ghulam Mehdi/ Engr. M. Tahir Mahesar**

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

Year: **1st** Semester: **2nd**

Subject: **Engineering Surveying (Practical)**

Subject Code: **CE127**

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:

CLO No.	Description	Taxonomy level	Linking to PLOs
4	OPERATE various surveying instruments used for linear and angular measurements.	P3	5

S. No	Topics	Lectures Required
1.	(a) : Introduction to Health and Safety measures in Engineering Surveying Lab . (b) : Introduction to various Surveying instruments. (c) : Various methods and equipment used for measuring distance.	03
2.	To range out a survey line when the two ends of a line are inter-visible from each end, and when two end points are not inter-visible from each end (Direct and Indirect Ranging).	03
3.	To measure the horizontal distance between two terminal stations by different methods when the ground is flat and to determine the horizontal distance between the two terminal stations on a sloping ground by (I) Stepping Method (II) Using Abney Level.	03
4.	To set out the base line and Perpendicular line / Offsets in the field.	03
5.	Introduction to Automatic level and temporary adjustment of Automatic level.	03
6.	To collect data for Profile Levelling and cross-sectional leveling of a proposed road using Auto Level.	03
7.	To draw profile of a road (L-Section) and Cross-sections of a proposed road from obtained level data.	03
8.	Introduction to theodolite and its temporary adjustment and to determine the Horizontal angles, vertical angles and bearing of lines.	03
9.	To determine the independent coordinates of an existing building by theodolite traversing.	03
10.	To determine horizontal distances by tacheometric Surveying when the line of sight is horizontal.	03
11.	Orientation of Total Station and its Adjustment.	03
12.	To set out the Simple Circular Curve by deflection Angle method.	03
13.	To collect data for contour map of a given area of land by using total station.	03
14.	To determine R.L at top of elevated object by Trigonometric Leveling.	03
15.	To set out layout of a building by using coordinate method with the help of total station.	03
16.	To perform an open-ended lab.	03
	Total lectures	48

Signature of Teacher:

A handwritten signature in blue ink, appearing to read "Rajiv", written over a horizontal line.

Dated: 13-12-2023

Remarks by DMRC: **APPROVED**

Signature of Chairman:

A handwritten signature in blue ink, appearing to read "K. Jinn", written over a horizontal line. The letter "K" is circled.

Dated: 21/12/2023