

# MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY

FRM-001/00QSP-004

Dec. 01, 2001

## TENTATIVE TEACHING PLAN

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

Course Code: **CE341**

Name of Teacher: **Dr. Nafees Ahmed Memon**

Subject: **Quantity Surveying & Estimation**

Batch: **20CE (D)** Semester: **2nd** Year: **3rd**

Terms Starting Date: 03-07-2023

Term Suspension Date: 20-10-2023

After completion of "Quantity Surveying and Estimation " course, each student will be able to:

CLO	Description	Taxonomy Level	Associated PLO
1	SOLVE the numerical related to quantities of various civil engineering works.	C3	2
2	ANALYZE cost of construction project and discuss contract award procedure	C4	4

S#	Topic	CLO	Lectures Required
1	Introduction and overview of the subject	1	1
2	Estimate and its' types	1	2
3	Scope of civil engineering works and its' impact on cost estimate	1	1
4	Role of Quantity Surveyor at different organizational levels	1	1
5	Quantity estimation (Foundation and Load Bearing wall)	1	1
6	Working out Quantities of a single Room (Separate wall Method)	1	2
7	Working out Quantities of Two Room Building (Separate wall Method)	1	2
8	Working out Quantities of a single Room (Centre Line Method)	1	2
9	Working out Quantities of Two Room Building (Centre Line Method)	1	2
10	Basic concepts for calculation of quantities in R.C.C Structures	1	1
11	Calculation of quantities of a R.C.C pile and column	1	2
12	Quantities of Concrete and Steel - R.C.C Beams	1	2
13	Quantities of Concrete and Steel -R.C.C Slab	1	2
14	Quantities of Concrete and Steel –Retaining wall	1	2
15	Introduction Quantity Calculation of Steel Structures and Bridges	1	2
16	Road Works (Earthwork in filling)	1	3
17	Road Works (Earthwork in filling & cutting)	1	3
18	Sewer and Water main pipe Works	1	2
19	Task or Out-turn work, Importance of Rate Analysis (R.A)	2	1
20	Productivity of Labor, Significance of productivity in R.A	2	1
21	Factors influencing R.A of different construction works	2	2
22	Specifications for various items in construction	2	1
23	General practice in government departments for schedule of rates	2	1
24	R.A of Excavation and Lean Concrete	2	1
25	Rate Analysis of R.C.C work	2	1
26	Rate Analysis of Brick Masonry and Plastering	2	1
27	Bill of Quantities for a project, Maintaining measurement book	2	1
28	Types of contracts, Security deposit & Earnest money	2	2

29	Preparation of Contract and tender documents, Evaluation of Bids	<b>2</b>	1
30	Valuation of Buildings, Obsolescence, Depreciation and Sinking Fund	<b>2</b>	1
31	General Procedure for award of works in Public Works Departments	<b>2</b>	1
	<b>Total Lecture hrs.</b>		<b>48</b>

Signature of Teacher

Dated: 16/08/2023

Remarks by DMRC

APPROVED

Signature of Chairman

Dated: 01/08/2023