

TENTATIVE TEACHING PLANDEPARTMENT/ INSTITUTE/DIRECTORATE: **CIVIL ENGINEERING**Course Code: **CE341**Name of Teacher: **Engr. Abdul Raqeeb Memon**Subject: **Quantity Surveying & Estimation**Batch: **20CE (A, B & C)** Semester: **2nd** Year: **3rd**Terms Starting Date: **03-07-2023**Term Suspension Date: **20-10-2023**

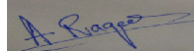
After completion of "Quantity Surveying and Estimation " course, each student will be able to:

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	Significance of cost estimation in construction industry	1	1
3	Estimate and its' types	1	1
4	Role of Quantity Surveyor at different organizational levels	1	1
5	Importance of preliminary estimate in administrative approval of public sector projects	1	1
6	Main requirements and factors to be considered while preparing a detailed estimate	1	1
7	Scope of civil engineering works and its' impact on cost estimate		1
8	Quantity estimation (Foundation and Load Bearing wall)	1	1
9	Working out Quantities of a single Room (Separate wall Method)	1	2
10	Working out Quantities of Two Room Building (Separate wall Method)	1	2
11	Working out Quantities of a single Room (Centre Line Method)	1	2
12	Working out Quantities of Two Room Building (Centre Line Method)	1	2
13	Basic concepts for calculation of quantities in R.C.C Structures	1	1
14	Calculation of quantities of a R.C.C pile and column	1	2
15	Quantities of Concrete and Steel - R.C.C Beams	1	2
16	Quantities of Concrete and Steel -R.C.C Slab and Staircase	1	2
17	Quantities of Concrete and Steel –Retaining wall	1	2
18	Quantities of Steel Structures	1	2
19	Road Works (Earthwork in filling)	1	2
20	Road Works (Earthwork in filling & cutting)	1	2
21	Sewer and Water main pipe Works	1	2
22	Task or Out-turn work, Importance of Rate Analysis (R.A)	2	1
23	Significance of Labor productivity calculation in RA	2	1
24	Factors influencing R.A of different construction works	2	1
25	Specifications for various items in construction	2	1
26	Specifications and general practice in government departments for	2	1

	schedule of rates		
27	R.A of Excavation and Lean Concrete	2	1
28	Rate Analysis of R.C.C work	2	1
29	Rate Analysis of Brick Masonry and Plastering	2	1
30	Bill of Quantities for a project, Maintaining measurement book	2	1
31	Preliminary Estimate of Various Buildings	2	2
32	Types of Contracts	2	1
33	Preparation of Contract and tender documents, Evaluation of Bids	2	1
34	Valuation of Buildings, Obsolescence, Depreciation and Sinking Fund	2	1
35	General Procedure for award of works in Public Works Departments	2	1
	Total Lecture hrs.		48

Signature of Teacher



Dated: 16/06/2023

Remarks by DMRC: **APPROVED**

Signature of Chairman



Dated: 01/08/2023