



C.U.SHAH UNIVERSITY – Wadhwan City

FACULTY OF: -Technology and Engineering (Diploma Engineering)

DEPARTMENT OF: - Civil Engineering

SEMESTER: - IV **CODE:** -2TE04QSE1

NAME – Quantity Surveying and Estimating.

Teaching & Evaluation Scheme:-

Subject Code	Subject Name	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	To		Theory				Practical (Marks)		Total	
							Sessional Exam		University Exam		Internal			University
							Marks	Hours	Marks	Hours	Pr	TW		Pr
2TE04QSE1	Quantity Surveying and Estimating.	03	00	00	03	03	30	1.5	70	03	---	---	---	100

Objectives: To understand advanced concepts of estimating and costing and applying to the practical situation.

Pre-requisite: Thorough knowledge of arithmetic and inclination towards accuracy and detailing.

Course Outlines:-

Sr. No.	Course Contents	Teaching Hours
1	Procedure of estimating : Metric system,SI units,deduction for opening,,RCC ,flooring,plastering and pointing,doors and windows,whitewashing,colour washing,,unit of measurements.	5
2	Methods of building estimates: Building estimates,centreline methods,method I & method II,arch masonry calculations.estimates of steps..	8
3	Estimate of buildings : Estmate of masonry platform,Estmate of single room building,Estimate of a two room building,Estimate of an office building,estimate of a shop,estimate of a site office block..	7
4	RCC works and structures.: Estimates of RCC framed buildings,staircase,retaining wall,stanchion building,,double storeyed building	7
5	Culverts,bridges,well: Estimate of RCC slab culvert,RCC T beam decking,pier,pipe culvert ,well foundations,,aquaduct,siphon,fall.	8
6	Analysis of rates: Analysis of rates,overhead cost,labour required for different workloads for carts and trucks,materials for different items of work,materials for cement concrete.,	6
7	Specufications Earthwork in foundation,lime concrete in foundation,cement concrete,RCC work brickwork,white washing,color washing,Plastering ,pointing,Painting varnishing ,doors and windows,centering shuttering,glazing,DPC.	6

Learning outcomes:

Gain the ability to measure and calculate the quantities as per drawings and actual work done.

Books Recommended:-

- Estimaying and costing by BN Dutta,UBS Publishers & distributors.