

# GUJARAT TECHNOLOGICAL UNIVERSITY

## DIPLOMA IN CIVIL ENGINEERING

### SEMESTER: V

Subject Name: **Quantity Survey and Valuation Practice**

Expt. No.	Description of the Experiment	Action	Hours
1	Rate analysis for at least ten items of construction	Home work	-
2	Specifications for at least ten items of construction	Home work	-
3	Drawing of one room is to be provided to guide the students for the interpretation of drawing.	Interpretation of drawing.	2
4	List of different items is to be provided. The modes of measurements according to prevailing I.S.	Prepare a list of construction items & mode of measurement	2
5	Detailed estimate of a small residential building having two rooms, w.c; bath, verandah, passage etc. from a given working drawing. ( centre line and Long wall ,short wall method)	Work out estimate in the class.	6
6	Detailed estimate of a two- storey residential building having drawing room, two bed rooms, kitchen, store, W.C. bath, staircase, verandah, balcony, passage from given working drawing.	Students have to work out the estimate by themselves, with help of faculty. (Incorporate field visit)	12
7	Detailed estimate of R.C.C. framework consisting beam, column and slab and weather shed.	Work out estimate in the class. (Incorporate field visit)	10
8	Detailed estimate of R.C.C. retaining wall.	Work out estimate in the class.	4
9	<b>Valuation :</b> Valuation : Tables I, II , III  i) Calculation of Sinking fund ii) Calculating values of different types of Civil engineering buildings using appropriate Valuation methods. iii) Calculation of Installment for Loan iv) Fixing of standard Rent	Minimum two problems for each topic.	20

## References Books:

1. I.S 1200 Part I to XXV (Revised) B.I.S. Publication
2. Estimating & Costing in Civil Engg. B.N. Dutta
3. Estimating & Costing (Civil Engg.) S.C.Rangwala
4. Estimating & Costing M.C.Chakraborty
5. A text book of Estimating & Costing G.S.Birdie
6. Estimating & Costing Vazirani & Chandola
7. Theory & Practice of Valuation Roshan H. Namavati
8. Valuation of Real properties Roshan H. Namavati
9. Valuation of Real properties S.C.Rangwala

## Note:

1. Term work should also include certification by subject teachers and counter signed by HOD.
2. Incorporate appropriate field visit with concerned estimate to enforce the skill of estimation.
3. Term work is to be defended (along with term work) with practical examination by external and internal examiners. Practical examination will include followings:
  - **Viva**
  - **Explanation of working and field construction terminologies.**
  - **Calculation of different quantities of construction items from different drawings.**
4. Each estimate must inclusive of i) Title page ii) Abstract sheet, iii) Detail drawing, iv) Measurement sheet, v) Bar bending schedule, vi) Material sheet etc.
5. Term work must Include two examples for each topic of valuation.