CE330 ESTIMATING, COSTING AND VALUATION (3L-0T-0P:3Cr, 3Hr)

Pre-requisite –None

Introduction: Meaning of Estimation; Purpose of Estimation; Cost Planning

Types of Estimate-Sanction-Project: Preliminary and Detailed Estimate; Administrative Approval; Technical sanction; Bill of quantities.

Preliminary Estimate: Preparation of preliminary estimate of building.

Detailed Estimate: Estimate of wall; Estimate of Building- Long wall and short wall method, Centre line method; Estimate of Road; Calculation of earthwork.

Specifications: Principles of general and detailed specifications; Examples of general and detailed specifications; Bar bending schedule, Mass haul diagram.

Rate Analysis: Analysis of rates; Purpose of Rate Analysis; Examples of Rate analysis of typical items

Valuation; Meaning of valuation, Purpose of Valuation; Methods of Valuation; Escalation and Depreciation calculations.

COURSE OUTCOME

1. Identify, review literature and analyse the various estimation methods and their purpose.
2. Apply mathematical and engineering principles to prepare preliminary and detailed estimates for building, roads, etc.
3. Analyze complex civil engineering problems to prepare specification of works and rates.
4. Demonstrate the engineering knowledge to find the valuation of buildings.

TEXT BOOKS

1. Dutta, B. N. *Estimating and Costing in Civil Engineering*. UBS Publishers' Distributors Pvt. Ltd.
2. Rangwalla. *Estimating, Costing and Valuation*. Charotar Publishing House Pvt. Ltd.

REFERENCES

1. Kohli and Kohli, *Estimating and Costing*, S. Chand
2. M. Chakraborty, *Estimating, Costing, Specification and Valuations in Civil Engineering.*