

IV B.Tech II Semester

15ACE81-ESTIMATION, COSTING AND VALUATION

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**Objective:**

The objective of the course is to make the student to understand about estimation and valuations of different types of structures and their valuation as per standard schedule of rates.

**UNIT – I**

**INTRODUCTION:** General items of work in Building – Standard Units Principles of working out quantities for detailed and abstract estimates – Approximate method of Estimating.

**STANDARD SPECIFICATIONS:** Standard specifications for different items of building construction

**UNIT – II**

**ESTIMATION OF BUILDINGS:** Detailed Estimates of Buildings

**UNIT – III**

**EARTHWORK ESTIMATION :** Earthwork for roads and canals.

**REINFORCEMENT ESTIMATION:** Reinforcement bar bending and bar requirement schedules.

**UNIT – IV**

**CONTRACTS AND TENDERS :** Contracts – Types of contracts – Contract Documents – Conditions of contract – Types of Tenders – Requirement of Tendering.

**UNIT – V**

**RATE ANALYSIS:** Working out data for various items of work over head and contingent charges.

**VALUATION:** Valuation of buildings. .

**Course outcomes:**

On completion of the course, the students will be able to:

- apply different types of estimates for different building elements
- carry out analysis of rates and bill preparation different building elements
- understand the concepts of specification writing
- carry out valuation of assets

**TEXT BOOKS :**

1. Estimating and Costing by B.N. Dutta, UBS publishers, 2000.
2. Contracts and estimations by B.S.Patil, Universities.Press, Hyderabad.
3. Estimation, Costing and Specifications by M. Chakraborti; Laxmi publications

**REFERENCES:**

1. Estimating and Costing by G.S. Birdie, DhanpatRai Publishing Company (P) Ltd
2. A Text book of Estimating and Costing by D.D.Kohli, S.ChandPubilishers.

