

## **CE801-ESTIMATING, SPECIFICATIONS & CONTRACTS**

### **SYLLABUS:**

#### **UNIT – I**

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

#### **UNIT – II**

Rate Analysis – Working out data for various items of work over head and contingent charges.

#### **UNIT-III**

Earthwork for roads and canals, Reinforcement bar bending and bar requirement schedules.

#### **UNIT – IV**

Contracts – Types of contracts – Contract Documents – Conditions of contract, Valuation of buildings- Standard specifications for different items of building construction.

#### **UNIT-V**

Detailed Estimation of Buildings using individual wall method.

#### **UNIT -VI**

Detailed Estimation of Buildings using centre line method.

### **FINAL EXAMINATION PATTERN:**

The end examination paper should consist of SIX questions from Unit 1 to Unit 4, out of which THREE are to be answered (60% weight-age) & ONE mandatory question (40% weight-age) from Units 5 & 6 is to be answered.

### **TEXT BOOKS:**

1. 'Estimating and Costing' by B.N. Dutta, UBS publishers, 2000.
2. 'Civil Engineering Contracts and Estimates' by B. S. Patil, Universities Press (India) Pvt. Ltd., Hyd.
3. 'Construction Planning and Technology' by Rajiv Gupta, CBS Publishers & Distributors Pvt. Ltd. New Delhi.
4. 'Estimating and Costing' by G.S. Birdie.

**REFERENCES:**

1. 'Standard Schedule of rates and standard data book' by public works department.
2. IS 1200 (Parts I to XXV-1974/ Method of Measurement of Building & Civil Engg Works – B.I.S.)
3. 'Estimation, Costing and Specifications' by M. Chakraborti; Laxmi publications.
4. National Building Code