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CE8701 ESTIMATION, COSTING AND VALUATION ENGINEERING

DETAILED SYLLABUS

OBJECTIVE:

• The students will acquire knowledge in estimation, tender practices, contract procedures, and valuation and will be able to prepare estimates, call for tenders and execute works.

UNIT I QUANTITY ESTIMATION

Philosophy – Purpose – Methods of estimation – Types of estimates – Approximate estimates – Detailed estimate – Estimation of quantities for buildings, bituminous and cement concrete roads, septic tank, soak pit, retaining walls – culverts (additional practice in class room using computer softwares)

UNIT II RATE ANALYSIS AND COSTING

Standard Data – Observed Data – Schedule of rates – Market rates – Standard Data for Man Hours and Machineries for common civil works – Rate Analysis for all Building works, canals, and Roads– Cost Estimates (additional practice in class room using Computer softwares) -(Analysis of rates for the item of work asked, the data regarding labour, rates of material and rates of labour to be given in the Examination Question Paper)

UNIT III SPECIFICATIONS, REPORTS AND TENDERS

Specifications – Detailed and general specifications – Constructions – Sources – Types of specifications – Principles for report preparation – report on estimate of residential building – Culvert – Roads – TTT Act 2000 – Tender notices – types – tender procedures – Drafting model tenders, E-tendering-Digital signature certificates- Encrypting -Decrypting – Reverse auctions.

UNIT IV CONTRACTS

Contract – Types of contracts – Formation of contract – Contract conditions – Contract for labour, material, design, construction – Drafting of contract documents based on IBRD / MORTH Standard bidding documents – Construction contracts – Contract problems – Arbitration and legal requirements.

UNIT V VALUATION

Definitions – Various types of valuations – Valuation methods - Necessity – Capitalised value – Depreciation – Escalation – Valuation of land – Buildings – Calculation of Standard rent – Mortgage – Lease

TEXTBOOKS:

1. B.N Dutta 'Estimating and Costing in Civil Engineering', UBS Publishers & Distributors (P) Ltd, 2010.

- 2. B.S. Patil, 'Civil Engineering Contracts and Estimates', University Press, 2006
- 3. D.N. Banerjee, 'Principles and Practices of Valuation', V Edition, Eastern Law House, 1998

Diploma, Anna Univ UG & PG Courses Notes Syllabus Question Papers Results and Many more...

Available @

REFERENCES:

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- 1. Hand Book of Consolidated Data 8/2000, Vol.1, TNPWD
- 2. Tamil Nadu Transparencies in Tenders Act, 1998
- 3. Arbitration and Conciliation Act, 1996
- 4. Standard Bid Evaluation Form, Procurement of Good or Works, The World Bank, April 1996
- 5. Standard Data Book for Analysis and Rates, IRC, New Delhi, 2003