

## **Building Estimation and Costing**

### **Course Curriculum (Duration: 50 Hrs.)**

#### **Chapter 1: Introduction to Building Estimation and Costing**

- a. Construction Cost Estimating and Cost Control Overview
- b. Understanding Design in the Construction Industry
- c. Types of Estimates
- d. Data required for preparing the Estimate
- e. Tools used in the industry for Estimation and Costing
- f. Advantages of Estimates

#### **Chapter 2: Building Quantities (Takeoff)**

- a. Introduction of excavation through CAD & EXCEL
- b. Quantity of P.C.C.
- c. Quantity of Brick Work in Foundation
- d. Quantity In Concrete in Column Necks
- e. Quantity of Concrete in Beam on Foundation
- f. Brick quantity in Superstructure
- g. Concrete in Slab
- h. Quantity of Concrete in Stair & Brick work in parapet and mummy
- i. How to prepare Bar Bending Schedule Sheet in Excel?
- j. Quantity of Steel in Column Necks
- k. Quantity of Steel in Foundation
- l. Quantity of Steel in Slab
- m. External & Internal Plaster
- n. Quantity of Tiles, Marble & Skirting
- o. Quantity of Skirting
- p. Quantity of Paint
- q. Prepare Material Statement

#### **Chapter 3: Rate Analysis**

- a. Introduction to Rate Analysis
- b. Rate analysis for Excavation
- c. Rate analysis for PCC
- d. Rate analysis for Reinforced Cement Concrete (R.C.C)
- e. Rate Analysis for Brick Work
- f. Rate Analysis For Plaster Work
- g. Rate analysis for Tiles & Paint

#### **Chapter 4: Bill of Quantity**

#### **Chapter 5: Introduction to Specification & Tenders**

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