

## **SUBJECT NAME – ESTIMATION AND COSTING**

**SUBJECT CODE – 3356206**

### **FOCUS:**

To develop the necessary skills for estimation and writing specifications for various types of buildings and developmental work, to achieve the best in terms of cost efficiency and standards.

### **CONTENTS:**

- Introduction, importance of estimation, types of estimates, mode of measurement etc.
- Study of local SR rates, Market rates, Measurement book (MB) RA bill, interim and final certificate
- Detailed rate analysis of building items as per current schedule of rates (CSR) of local PWD and CPWD, Delhi
- Schedule of Rates – for information only
- Percentage of various materials used in building items like cement, steel, rubble, metal sand brick, tiles etc.,
- Abstract and detailed specifications for various materials and items of work used in building
- Understanding of importance of specification in contract document and execution purpose.
- Estimation of
  - a) Load bearing and RCC framed structure with one example for each
  - b) Various types of roofs like steel and wood including roofing materials like Mangalore tiles, AC, GI sheet etc.,
  - c) Water supply and sanitary works
  - d) A typical layout plan with roads, culverts etc.,
- Study through practical site visits, presentations, case studies, tutorial, study of BOQ & workshop based on the application of theory to construction field.

### **SUGGESTED BOOKS**

- Estimating and Costing by S K Dutta
- Estimating by SC Ranga