

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Syllabus for B.Arch

### SIXTH SEMESTER (W.E.F. JANUARY 2015)

**SUBJECT NAME:** Estimating & Costing

**SUBJECT CODE:** 1065005

**Focus:** Understanding Quantity Surveying & Estimate preparation

**Content:**

- Specification: Specification of different building items - general specification and detailed specification.
- Rate Analysis: Meaning, Importance, Purpose and use, factors affecting rate analysis. Rate analysis of major items of building work. Factors affecting, cost of work, task work general information regarding S.O.R.
- Estimates: Method of computing quantities, mode of measurement of all items of work, unit of measurement IS 1200.  
Estimates of different items of work:-  
Compound wall, Small residential building 1 room with verandah, Small residential building with 2 room kitchen with Bath W.C., Two storied residential building, R.C.C. work column, flooring, Beam - T Beam, Slab - One way/Two way. Slab including centering, shuttering & reinforcement. Steel truss.  
Material requirement for above items including Brick work – R.C.C. -  
Wooden items - doors, windows, Glass.  
Measurement Book its entry checking and preparation of Bill etc. standard M.B.
- Over and above the mentioned items, Estimate of Septic Tank, Soak Pit, Sanitary item – Plumbing, Electrification. Rate analysis of all major items to be prepared.

**Reference Book**

| SR.NO. | TITLE                  | AUTHOR      |
|--------|------------------------|-------------|
|        |                        |             |
| 01.    | Estimation & Valuation | B.N.Dutta   |
| 02.    | Estimation & Valuation | Rangwala    |
| 03.    | Estimation & Valuation | Chakravarti |
| 04.    | Quantity Surveying     | Rangwala    |

