## **GUJARAT TECHNOLOGICAL UNIVERSITY**

# Syllabus for B.Arch.

### FIFTH SEMESTER (W.E.F. JULY 2014)

**SUBJECT NAME: Building Construction-V** 

**SUBJECT CODE: 1055002** 

### Focus:

- Understanding the behaviour of two different materials i.e. Concrete and steel their various possibilities, Building elements and components, different processes and products.
- Precast and pre stressed systems

### **Content:**

- Materials -Steel and Concrete R.C.C. Elements P.C.C. Elements Precast Elements
- Introduction to advance shallow and deep foundations
- Different type of slabs and vaults.
- Introduction to structural steel. Rolled steel sections.
- RCC column foundation Retaining walls, Raft, Pile foundation, cantilever, & combined footing
- Introduction to footings for steel columns.
- Conceptual study of general connections Beam to beam connections Beam to column connections column to column connections column to foundation connection.
- Concept of built up beams and columns recommended uses.
- Concept of lacings, battening & importance of bracings.

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04.	Design Of Steel Structures	Arya & Ajmani