

Approval: 9th Senate Meeting

Course Number: CE 353P

Course Name: Civil Engineering Drawing

Credits: 0-0-2-1

Prerequisites: IC 140 - Graphics for Design

Intended for: UG

Distribution: Discipline Core

Semester: Odd/Even

Preamble: Civil engineering drawing is a practicum course intended for B.Tech Civil Engineering students to explain various aspects of building drawings. This course will enhance the skill to understand, interpret and execute building projects in practice. This course will also serve as the basis for the preparation of material and cost estimates.

Course Outline: The course has been designed to cover the fundamental aspects of building and structural drawings. The modules have been elaborated as follows.

Modules:

1. Course policies, signs and symbols, planning residential building. **(2 contact hours)**
2. Site planning. **(4 contact hours)**
3. Building components: foundations, brick, RC, stone, windows, doors, arches, staircase. **(10 contact hours)**
4. Residential building: announcement of project. **(2 contact hours)**
5. Detailing of RC elements: sections of beams, columns, footings and portal frames. **(6 contact hours)**
6. Detailing of steel connection: rivets, welding, nuts and bolts. **(4 contact hours)**

Text Books:

1. Balagopal T.S. Prabhu, K. Vincent Paul, and C. Vijayan, 'Building Drawing and Detailing', Spades publishers, Calicut, 1987.
2. M.G.Shah, C.M. Kale, and S.Y. Patki, ' Building drawing with an integrated approach to built environment 4th Edn.', Tata McGraw Hill, 2002.