B.Tech III Year	L	T	P	To	C
	-	-	3	3	2

CE333 COMPUTER APPLICATIONS IN CIVIL ENGINEERING

Course Description and Objective:

Students are expected to write and execute programmes to solve the following problems. Programmes shall be in C or C++ language or MS-Office Software's.

Course Outcome:

- *Design of civil engineering elements using softwares like excel and c*

Note: A minimum of twelve (10No) shall be done and recorded

(Write any Four programmes)

1. Design of Reinforced Beam for flexure by limit state method.
2. Design of T- Beam for flexure by limit state method.
3. Design of Reinforced beam for Shear by limit state method.
4. Design of R.C.C. section subjected to Bending moment, Shear force and Torsional moment.
5. Design of simply supported one-way slab.

(Write any THREE programmes)

6. Classification of soil by Indian standard classification system.
7. Stresses due to applied loads both Boussinesq and Westerguard analysis
   a) Concentrated load
   b) Circular loaded area
   c) Rectangular loaded area
8. Determination of permeability coefficient by constant head and falling permeability tests.
9. Determination of index properties of soil.

(Write any THREE programmes)

10. Design of an open channel

12. Analysis of water distribution networks (Hardy cross method).

13. Determination of the height of the building when base is accessible.

14. Determination of included angles from the given bearing and check for local attraction.

B.Tech III Year	L	T	P	To	C
	-	-	3	3	2

CE335 BUILDING DRAWING USING AUTOCAD

Course Description and Objective:

The Course Description and Objectives is to make the student competence in building drawing by conventional as well as CAD software.

Course Outcomes:

- *Prepare plans*
- *section and elevations of Buildings by using AutoCAD software*

1. Conventional signs
2. Plan, section and elevation of doors and windows
3. English and Flemish bonds King-post and Queen-post trusses
4. Plan, Section and Elevation of a single storied residential building
5. Generating Plan, Section and elevation of a two storied residential building
6. Generating plan, Section and elevation of a post-office/Bank
7. Learning Basic commands of CAD software
8. Drawing the line diagram of basic building components like door, window by CAD software

9.. Drawing plan, section and elevation of a single storied residential building by CAD software