20CE3662 – MINOR PROJECT

Offering Branches	CE		
Course Category:	Projects	**Credits:**	1.5
Course Type:	Theory & Practical	**Lecture-Tutorial-Practical:**	0-0-3
Prerequisites:	NIL	**Continuous Evaluation:**	15
		Semester End Evaluation:	35
		Total Marks:	50

Course Outcomes

Upon successful completion of the course, the student will be able to:

CO1	**Develop** capability to acquire and apply fundamental principles of engineering	K6
CO2	**Become** updated with all the latest changes in technological world	K3
CO3	**Make** deep connections between ideas	K3
CO4	**Learn** to take creative risks	K2
CO5	**Be ready** for the creative economy also engage in iterative thinking and divergent thinking	K2
CO6	**Identify, formulate and model** problems and find engineering solution based on a systems approach	K5

Contribution of Course Outcomes towards achievement of Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	3	3	1	3	3	3	3	3	3	2
CO2	3	2	2	3	3	3	1	3	3	3	3	3	3	2
CO3	3	2	2	3	3	3	1	3	3	3	3	3	3	2
CO4	3	2	2	3	3	3	1	3	3	3	3	3	3	2
CO5	3	2	2	3	3	3	1	3	3	3	3	3	3	2
CO6	3	2	2	3	3	3	1	3	3	3	3	3	3	2
Avg.	**3**	**2**	**2**	**3**	**3**	**3**	**1**	**3**	**3**	**3**	**3**	**3**	**3**	**2**

1- Low **2-Medium** **3-High**

Course Content

PURPOSE: To carry out a design project in one of the specializations of civil engineering with substantial multidisciplinary component.

INSTRUCTIONAL OBJECTIVES: To guide the students in such a way so that they carry out a work on a topic as a forerunner to the full-fledged project work to be taken subsequently in VIII semester. The project work shall consist of substantial multidisciplinary component.

The students will carry out a project in one of the following civil engineering areas but with substantial multidisciplinary component involving Architecture, Mechanical engg. Electrical engg., Biotechnology, Chemical engg., Computer science

- Structural Engineering
- Geotechnical Engineering
- Water Resources Engineering and environmental engg.
- Geomatics Engineering and surveying
- Construction management
- Transportation engineering

CO1 CO2 CO3 CO4 CO5 CO6

Student groups will be formed (4 in a group) and a faculty member will be allocated to guide them. There will be three reviews. First review will not carry any marks but the project topic will be finalized in it. Of remaining 2 reviews one will be carried out in the mid-semester and the last one by the end of semester.

INTERNAL ASSESSMENT

Marks	Awarded by	Criteria
5	Guide	For regularity, systematic progress, extent of work and quality of work
5	2nd review	Presentation, contents and viva
5	3rd review	Multidisciplinary component, Quality of project report, Presentation, contents and viva