**20CE3861 – PROJECT WORK, SEMINAR AND INTERNSHIP IN INDUSTRY (6 MONTHS)**

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| **Offering Branches** | CE | | |
| **Course Category:** | Project Work and Internship | **Credits:** | 12 |
| **Course Type:** | Practical | **Lecture-Tutorial-Practical:** | 0-0-0 |
| **Prerequisites:** | NIL | **Continuous Evaluation:** | 60 |
| | | **Semester End Evaluation:** | 140 |
| | | **Total Marks:** | 200 |

**Course Outcomes**

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

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| **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 simulate real life situations related to civil engineering and impart adequate training so that confidence to face and tackle any problem in the field is developed in the college itself.

**INSTRUCTIONAL OBJECTIVE**: To guide the students such a way that the they carry out a comprehensive work on the chosen topic which will stand them in good stead as they face real life situations. The project work so chosen by the student shall culminate in gaining of major design experience in the related area of specialization.

**CO1 CO2 CO3 CO4 CO5 CO6**

**MAJOR PROJECT**

Each project will cover all the aspects (to the extent possible) like investigation, planning, designing, detailing and estimating of a civil engineering structure in which the aspects like analysis, application of relevant codes, etc., will find a place. Alternately, a few research problems also may be identified for investigation and the use of laboratory facilities to the fullest extent may be taken as a project work. The

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| project shall be driven by realistic constraints like that related to economic, environmental, social, political, ethical, health & safety, manufacturability and sustainability. The outcomes to be attained by students by doing the project work shall be spelt out clearly. A project report is to be submitted on the topic which will be evaluated during the final review. Assessment procedure will be as spelt out in the regulations.<br><br>**PRACTICE SCHOOL**<br>Alternately, a student is encouraged to take an industrial project with civil engineering organizations or firms chosen by the institute for a period of one semester i.e., 8th semester. In such cases the student will stay with the firm and carry out the project. The project will be guided by the faculty member and the concerned officer in the industry. All the requirements spelt out under 'MAJOR PROJECT' above, shall be incorporated under this work also. However, reviews will be conducted in the institute which the student shall attend | |