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| **Course Code – CE792** | | **Civil Engineering Practice Sessional** | **3P** | **2 Credits** |
| **Course Objective** | Student will be able to understand the ability to use different techniques, skills, and modern engineering tools necessary for Civil Engineering Practice. | | | |
| **Course Outcome (CO)** | 1. Develop the concept of the structural design and detailing of isolated rectangular and combined footing & behavior of foundation through different soil test. 2. Apply fundamental concept of water resources engineering to estimate different parameters related to hydrology and irrigation. 3. Analyze and design of water distribution network, hydraulic design of sewer and population forecasting. 4. Design the pavement design and traffic signal design of highway along with different geometric parameters of highway. | | | |

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| **CO Distribution** | **Assignment 1 (T1)** | **Slot Test 1 (T2)** | **Assignment 2 (T3)** | **Slot Test 2 (T4)** |
| **CO1** | Q1 |  |  |  |
| **CO2** | Q2 | Q1, Q2 |  |  |
| **CO3** |  |  | Q1 | Q1, Q2 |
| **CO4** |  |  | Q2 |  |

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| --- | --- | --- |
| **Course outcomes** | **% Of students achieved CO** | **Decision on CO result (achieved) (Y/N) with level** |
| **CO1** | 76% | Y(Level: 2) |
| **CO2** | 80% | Y(Level: 3) |
| **CO3** | 84% | Y(Level:3) |
| **CO4** | 80% | Y(Level:3) |
| **Average CO attainment for the course through CIE CE792** | 80% | Level: 3 |

**Overall CO attainment (CE792) in the scale of 3**

= (40% of target level of average CO attainment through CIE) +(60% of target level of CO attainment through SEE)

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| **Subject Code** | **CO1** | **CO2** | **CO3** | **CO4** | **Average CO Score**  **(CIE)** | **CO Score**  **(SEE)** | **Overall CO Attainment Score** |
| **CE792** | 2 | 3 | 3 | 3 | 2.76 | 3 | 2.91 |

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| **CO-PO Mapping**  **Civil Engineering Practice Sessional (Course Code – CE792)** | | | | | | | | | | | | | |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 3 | 3 | 3 | 2 | 2 | - | 2 | 1 | 2 | - | 2 | - |
| **CO2** | 3 | - | 3 | 3 | - | 2 | 2 | - | 2 | 2 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 3 |
| **CO4** | 3 | 2 | 3 | - | 1 | 2 | - | 3 | 3 | - | 2 | 2 |
| **Average CO** | **3** | **2.67** | **3** | **2.67** | **2.33** | **2** | **2.33** | **2.67** | **2.25** | **1** | **2.25** | **2.33** |

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| **CO-PSO Mapping**  **Civil Engineering Practice Sessional (Course Code – CE792)** | | | |
|  | **PSO1** | **PSO2** | **PSO3** |
| **CO1** | 3 | 2 | 3 |
| **CO2** | 2 | 2 | 3 |
| **CO3** | 3 | 3 | 2 |
| **CO4** | 2 | 2 | 2 |
| **Average CO** | 2.5 | 2.25 | 2.5 |

Following table has been generated considering mapping of CO-PO and CO attainment.

For, PO1 mapping value is = 3

Target PO = 3

Overall CO1 attainment score = 2.91

**Therefore, contribution to PO3 attainment is 2.91 × (3/3) =2.91. Others are calculated accordingly**

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| **PO Articulation Matrix** | | | | | | | | | | | | |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CE792** | **2.91**  (3/3)\*2.91 | **2.589**  (2.67/3)\*2.91 | **2.91**  (3/3)\*2.91 | **2.589**  (2.67/3)\*2.919 | **2.260**  (2.33/3)\*2.91 | **1.94**  (2/3)\*2.91 | **2.260**  (2.33/3)\*2.91 | **2.589**  (2.67/3)\*2.91 | **2.182**  (2.25/3)\*2.91 | **0.97**  (1/3)\*2.91 | **2.182**  (2.25/3)\*2.91 | **2.260**  (2.33/3)\*2.91 |

Following table has been generated considering mapping of CO-PSO and CO attainment.

For, PSO1 mapping value is = 2. 5

Target PSO = 3

Overall CO1 attainment score = 2.91

**Therefore, contribution to PO3 attainment is 2.91 × (2.5/3) =2.425. Others are calculated accordingly**

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| **PSO Articulation Matrix** | | | |
|  | **PSO1** | **PSO2** | **PSO3** |
| **CE792** | **2.425**  (2.5/3)\*2.91 | **2.182**  (2.25/3)\*2.91 | **2.425**  (2.5/3)\*2.91 |