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| **Course Code – CE492** | | **Surveying Practice II** | **3P** | **2 Credits** |
| **Course Objective** | Student will be able to function as a member of a team and have the ability to use techniques, skills, and modern engineering tools necessary for engineering practice. | | | |
| **Course Outcome (CO)** | 1. Students will be able to operate Theodolite instrument for Traversing. 2. Students will be able to explain about different readings & calculations with the help of Total Station. 3. Examine the results obtained from the Contouring survey & Leveling with the help of Total Station. 4. Students will be able to Setting out Curve in the field. | | | |

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

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| **Course outcomes** | **% Of students achieved CO** | **Decision on CO result (achieved) (Y/N) with level** |
| **CO1** | 80% | Y(Level: 3) |
| **CO2** | 86% | Y(Level: 3) |
| **CO3** | 76% | Y(Level:2) |
| **CO4** | 82% | Y(Level:3) |
| **Average CO attainment for the course through CIE CE492** | 81% | Level: 3 |

**Overall CO attainment (CE492) 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** |
| **CE492** | 3 | 3 | 2 | 3 | 2.75 | 3 | 2.9 |

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| **CO-PO Mapping**  **Surveying Practice II (Course Code – CE492)** | | | | | | | | | | | | | |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 3 | 3 | 3 | 2 | 1 | - | 2 | 1 | 2 | 2 | 2 | - |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 2 | 2 | - | 3 | 2 | 2 | 2 |
| **CO3** | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 3 |
| **CO4** | 3 | 3 | 3 | - | 1 | 2 | - | 3 | 2 | 2 | 2 | 2 |
| **Average CO** | **3** | **3** | **3** | **2.67** | **2** | **2** | **2.33** | **2.67** | **2.25** | **2** | **2** | **2.33** |

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| **CO-PSO Mapping**  **Surveying Practice II (Course Code – CE492)** | | | |
|  | **PSO1** | **PSO2** | **PSO3** |
| **CO1** | 3 | 2 | 3 |
| **CO2** | 3 | 2 | 3 |
| **CO3** | 3 | 2 | 2 |
| **CO4** | 2 | 3 | 1 |
| **Average CO** | 2.75 | 2.25 | 2.25 |

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 = 2.9

**Therefore, contribution to PO3 attainment is 2.9 × (3/3) =2.9. Others are calculated accordingly**

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| **PO Articulation Matrix** | | | | | | | | | | | | |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CE492** | **2.9**  (3/3)\*2.9 | **2.9**  (3/3)\*2.9 | **2.9**  (3/3)\*2.9 | **2.58**  (2.67/3)\*2.9 | **1.94**  (2/3)\*2.9 | **1.94**  (2/3)\*2.9 | **2.25**  (2.33/3)\*2.9 | **2.58**  (2.67/3)\*2.9 | **2.175**  (2.25/3)\*2.9 | **1.94**  (2/3)\*2.9 | **1.94**  (2/3)\*2.9 | **2.25**  (2.33/3)\*2.9 |

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

For, PSO1 mapping value is = 2.75

Target PSO = 3

Overall CO1 attainment score = 2.9

**Therefore, contribution to PO3 attainment is 2.9 × (2.75/3) =2.34. Others are calculated accordingly**

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| **PSO Articulation Matrix** | | | |
|  | **PSO1** | **PSO2** | **PSO3** |
| **CE492** | **2.65**  (2.75/3)\*2.9 | **2.175**  (2.25/3)\*2.9 | **2.175**  (2.25/3)\*2.9 |