## 19CE357 - SURVEY CAMP

| Course Category: | Program Core | Credits: | 2 |
|---|---|---|---|
| Course Type: | Project | Lecture-Tutorial-Practical: | 0-0-0 |
| Prerequisites: | 19CE3306 – Surveying<br>19CE3352 – Survey Lab | Continuous Evaluation: | 75 |
| | | Semester End Evaluation: | - |
| | | Total Marks: | 75 |

**Course Outcomes**

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

| | | |
|---|---|---|
| **CO1** | Familiar with advanced survey instruments like Auto Level and Total Station. | K2 |
| **CO2** | Apply modern surveying techniques in field to establish horizontal control using Total Station | K3 |
| **CO3** | Understand the surveying techniques in field to establish vertical control network using Auto Level. | K2 |
| **CO4** | Exposed to different survey adjustment techniques. | K4 |
| **CO5** | Familiarized in mapping process | K1 |

**Contribution of Course Outcomes towards achievement of Program Outcomes**

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

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

# Course Content

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|---|---|
| Student will learn all the technical skills required for surveying by performing major activities which includes Reconnaissance survey (safety, schedule, site visit, etc.) and Topographical survey with hands on chain traversing, theodolite traversing, details of the area using theodolite, profile levelling (L/S and C/S of roads), contouring, total station traversing on the selected study area. | CO1<br>CO2<br>CO3<br>CO4<br>CO5 |