

2/4 B.Tech. FOURTH SEMESTER

CE4L3

SURVEYING FIELD WORK – II

Credits: 2

Lecture: -

Internal assessment: 25 marks

Lab : 3 periods/week

Semester end examination: 50 marks

Pre-requisites: Surveying

Learning objectives:

- To survey areas, measure coordinates and elevations of points by advanced methods and instruments.

Course outcomes:

After performing the experiments listed in the syllabus, the students will be able to:

1. Use Total Station for field surveying to determine the distances, directions and elevations, height of the objects, area and boundaries of fields.
2. Set out simple curves using tape, Theodolite, Total Station, set out for building.
3. Mark out Plans, Sewer lines, Water supply lines, etc. using Total Station.

1. TOTAL STATION:

1. Study of Instrument – Determination of Distances, Directions and Elevations
2. Determination of Boundaries of a Field and computation of area.
3. Determination of Heights of objects.

2. SETTING OUT OF CURVES & LAYOUT OF BUILDING:

1. Setting of simple curve using tape or/and theodolite.
2. Setting of a simple curve using Total Station.
3. Setting out for Building.

Survey Camp is to be conducted for a minimum period of seven days

Using Total Station to train in one of the following areas:

1. Preparation of a contour Plan/ Map.
2. Earth work Computations for a high way / canal projects
3. Marking of a Sewer line/ Water supply line.
4. Any type of Execution works.