

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

Objectives:

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

Learning outcomes:

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

- Use Total Station for field surveying to determine the distances, directions and elevations, height of the objects, area and boundaries of fields.
- Set out simple curves using tape, Theodolite, Total Station, set out for building.
- 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.