

SURVEYING FIELD WORK - II

Practical: 3 Periods/Week
Semester End Exam.: 3 Hrs.

Sessional marks: 40
Semester End Exam. marks : 60
Credits : 2

Course Objectives:

The main objective of this laboratory course is to introduce Total Station instrument for regular field survey purpose

- All of the experiments which are done by mechanical instruments before are now dealt with Total station
- Each and every design/plot related to field survey is carried out by Total Station and required computations are directly made at the site itself
- This course will also present a survey camp after completing the regular lab sessions.

Course Outcomes:

- Every student can gain required excellence in using the Total Station Instrument
- Students can make accurate designs/plots thus by avoiding any manual errors
- Every student can meet the requirement of knowing the Total Station instrument which is vital for any construction firm
- Not only he/she can work out the experiments inside the institution but also they are trained for the on-site works outside the institution

Any 8 of the following:

1. Theodolite

1. Traversing and adjustment of traverse
2. Determination of Horizontal and Vertical distances by stadia methods
3. Determination of Elevations and Heights

2. Total Station

4. Study of Instrument – Determination of Distances, Directions and Elevations
5. Determination of Boundaries of a Field and computation of area.
6. Determination of Heights of objects.

3. Setting Out

7. Setting of simple circular curve using tape and chain.
8. Setting of simple circular curve using tape or/and theodolite
9. Setting of a simple circular curve using Total Station.
10. Setting out for Building.

Survey Camp is to be conducted for a minimum period of seven days to train in one of the following areas:

- i. Preparation of a contour Plan/ Map.
- ii. Earth work Computations for a high way / canal projects
- iii. Marking of a Sewer line/ Water supply line.
- iv. Any type of Execution works.

NOTE

50% Weight- age of total marks of this laboratory is to be given for total survey camp work including for Report submission by each batch.