II Year - I Semester 20CE3201

L T P C 0 0 3 2

DIGITAL SURVEYING

Course Outcomes:

- To determine angles, Distance between two inaccessible points.
- To find heights & distances by application of tachometric principles.
- To gain the knowledge of curve setting.
- To gain the knowledge of Contours.
- To determine length, area, Remote height, distance between inaccessible points by using Total Station.

List of Experiments

- 1. Theodolite Survey: Determining the Horizontal and Vertical Angles by the method of repetition method.
- 2. Theodolite Survey: Finding the distance between two inaccessible points.
- 3. Theodolite Survey: Finding the height of far object.
- 4. Tachometric survey: Heights and distance problems using tachometric principles.
- 5. One Exercise on Curve setting.
- 6. One Exercise on contours.
- 7. Total Station: Introduction to total station and practicing setting up, leveling up and elimination of parallax error.
- 8. Total Station: Determination of area using total station.
- 9. Total Station: Traversing
- 10. Total Station: Contouring
- 11. Total Station: Determination of Remote height.
- 12. Total Station: Determination of distance between two inaccessible points.

Note: Any 10 field work assignments must be completed.