

B.Tech.	II Year	L	T	P	To	C
		-	-	3	3	2

### CE211 SURVEYING FIELD WORK – I

#### **Course Description and Objective:**

To understand basic surveying methods and use of various instruments for surveying of given geographical locations.

#### **Course Outcomes:**

- use conventional surveying tools such as chain/tape, compass, plane table, level in the field of civil engineering applications such as structural plotting and highway profiling
- apply the procedures involved in field work and to work as a surveying team
- plan a survey appropriately with the skill to understand the surroundings
- take accurate measurements, field booking, plotting and adjustment of errors can be understood
- plot traverses / sides of building and determine the location of points present on field on a piece of paper

#### **Chain & Compass Survey**

1. Chaining of a line using Chain / Tape and Recording of details along the chain line.
2. Measurement of area – Cross staff survey.
3. Traversing by compass and graphical adjustment.
4. Determination of distance between two inaccessible points.

#### **Simple Levelling**

5. Measurement of elevation difference between two points using any leveling Instrument
6. Elevation difference between two points by Reciprocal leveling method.
7. Profile Leveling – Plotting of Profile.
8. Contouring of a small area by method of Blocks.

**Plane Table Survey**

9. Determination of the distance between two inaccessible points.
10. Plotting of a building by plane table Traversing
11. Resection by Trial and Error method.

**Theodolite**

12. Measurement of horizontal and vertical angles.
13. Determination of distance between two inaccessible points.

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**HS217 SOFT SKILLS LABORATORY****Course Rationale**

*Effective communication and interpersonal skills are crucial to increase employment opportunities and to compete successfully in the business environment. The real key to the effectiveness of professionals is their ability to put their domain knowledge into effective practice. In this context, soft skills have a crucial role to play. If future managers know how to deal with people at the emotional level (peers, subordinates, superiors, clients, suppliers, etc.) through Emotional Intelligence (EI), they can build and sustain effective relationships that will result in mutual gain.*

**Course Objectives:**

*By the end of the soft skills training programme, the students should be able to:*

- Develop effective communication skills (spoken and written).
- Develop effective presentation skills.
- Conduct effective business correspondence and prepare business reports which produce results.
- Become self-confident individuals by mastering inter-personal skills, team management skills, and leadership skills.