



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

SURVEYING LAB-I

Course Code: GR15A2009
II Year I Semester

L:0 T:0 P:2 C:2

Prerequisites

- Fundamentals of Engineering Mathematics
- Fundamentals of Surveying and Leveling

Course Objectives

- To teach the students to have successful technical or professional careers, including supportive and leadership roles on multidisciplinary teams.
- To train the students to Acquire, use and develop skills required for effective professional practices.
- To educate the students to acquire the holistic education necessary to be a responsible member of society.

Course Outcomes: After completing the Surveying lab -I, students will be able to:

- Civil Engineering Surveyors are involved in every stage of the project from initial concept through design and construction, to monitoring the condition and performance of the completed structure.
- Within this profession you could choose to work within Commercial Management (Quantity Surveying) or Geospatial Engineering.
- An ability to demonstrate proficiency in the creation and acquisition of Field data.

Contents

1. Introduction to different survey Instruments.
2. Measurement of an area by Chain Survey.
3. Chaining across obstacles(Three Exercises).
4. Measurement of an area by compass survey.
5. Determination of distance between two inaccessible points with compass.
6. Plane Table Survey. (Radiation & traversing and intersection methods).
7. Two point and three point problem in P.T.S.
8. Simple, fly, Differential Leveling.
9. Exercise of L.S and C.S and plotting.
10. Two exercises on Contouring.