# Diploma, Anna University-UG, PG., HSC & SSLC

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# 31046- SURVEYING PRACTICE II

DETAILED SYLLABUS

### OBJECTIVE

At the end of the course, Students

- Will have experience in handling surveying equipment's
- Do practical exercises in Theodolite surveying,
- Do Tachometric surveying
- Do surveying using Total station.

### LIST OF EXPERIMENTS

#### PART- A: THEODOLITE SURVEYING

- 1. Study of a Theodolite Temporary adjustments Reading horizontal angles.
- 2. Measurement of horizontal angle by: a. Reiteration method (not for Exam) b. Repetition method (not for Exam)
- Determination of distance between two points when their bases are accessible, using Theodolite - Measuring Horizontal angles by repetition method and distances from a Thedolite Station.
- Determination of distance between two points when their bases are inaccessible, using Theodolite - Measuring Horizontal angles by reiteration method from a baseline.
- 5. Run closed theodolite traverse Measuring length, included angles, and bearing at initial station. Plot the traverse.
- 6. Measurements of vertical angles to different points.
- 7. Determination of Elevation of an object when the base is accessible.
- 8. Determination of Elevation of an object when the base is inaccessible by :
  - a. Single plane method
  - b. Double plane method.

#### PART- B: TACHEOMETRIC SURVEYING

- 1. Determination of constants of a tachometer.
- 2. Determination of distance and elevation of points by Stadia tachometry.
- 3. Determination of gradient between two points (with different elevations) by Stadia tachometry.

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4. Determination of distance and elevation of points by Tangential tachometry.

# PART- C: TOTAL STATION

- 1. Study of Total Station General commands used Instrument preparation and setting Reading distances and angles.
- 2. Measurement of distances and co-ordinates of given points, using Total station.
- 3. Measurement of altitude of given elevated points, using Total Station.
- 4. Run closed traverse using Total Station and plotting the traverse.
- 5. Determination of area of a field / land / College Campus etc. using Total station.