



ENGINEERING MEASUREMENTS LAB

In this lab students become familiar with the field procedures of surveying. This lab course provides students with in-depth knowledge in horizontal measurement, vertical measurement, surveying instrumentation, differential leveling, directional measurement, horizontal control survey, mapping, and geographic information system.

Experiments:

- 1: Determining pace length
- 2: Linear measurements by tape
- 3: Two-Peg Test and Stadia reading
- 4: Profile levelling
- 5: Cross-sectional levelling
- 6: Contouring
- 7: Measuring Angle using Theodolite
- 8: Traverse
- 9: Missing Data of a Closed Traverse
- 10: Topographic

MAJOR EQUIPMENT:

Electronic Total Station, Theodolite, Level Instrument, GPS, Ranging Poles, Levelling Staff, prism, prism Pole, & Tripod

