

ADVANCED SURVEYING USING TOTAL STATION

Surveying or land surveying is the science of making all essential measurements to determine the relative position of points or physical and cultural details. Experts in Surveying can become licensed surveyors and members of various building professions. A Total Station is an electronic-optical instrument used in modern surveying and construction.

In the Survey Camp using Total Station, the modern Total Station we use is a combination of an electronic theodolite, an electronic distance meter (EDM) and software running on external computer known as data collector. Knowledge in using Total Station offers careers in various segments where total Station finds application in

- Civil Construction Companies
- Surveying: Survey and Land records
- Disaster Management
- Archaeological Survey

The workshop aims to provide adequate working knowledge on total stations which are widely in use across civil engineering and other industries.

DAY	TIME	TOPICS COVERED
DAY 1	10:00 to 11:00 am	1.1 INTRODUCTION 1.2 DEFINITION 1.3 COMPONENTS
	11:00 to 12:30 am	1.1 SETUP 1.2 CENTERING 1.3 LEVELING THE INSTRUMENT
	01:30 to 03:30 am	PRACTICE SESSION 1
	03:30 to 04:30 am	3.1 FINDING HORIZONTAL DISTANCES 3.2 DISTANCE BETWEEN TWO POINTS 3.3 ELEVATION OF OBJECTS 3.4 FINDING OUT AREAS

DAY 2	09:00 to 12:30 am	PRACTICE SESSION 2
	01:30 to 02:30 am	<p>3.5 MEASUREMENT OF VOLUMES</p> <p>3.6 LEVELLING</p> <p>3.7 HORIZONTAL ANGLES</p> <p>3.8 VERTICAL ANGLES</p> <p>3.9 TRAVERSING</p> <p>3.10 GRADIENT BETWEEN INACCESSIBLE STATIONS</p> <p>3.11 APPLICATIONS OF GPS</p>
	02:30 to 04:30 am	PRACTICE SESSION 3
	04:30 to 05:00 am	CONCLUSION