



**UNIVERSITY OF RUHUNA**  
**Centre for Multidisciplinary Studies and Research**  
**Hambanthota**

Offered Faculty: **Faculty of Engineering**

Offered Department: **Department of Civil and Environmental Engineering**

**Short Course on Engineering Surveying Use of Total Stations**

**OBJECTIVES**

Technical officers in the field are expected to carry out a variety of surveying tasks. Often they have to use state of the art surveying equipment. This means that the technical officers have to update their knowledge in surveying instrument. Total station is one of such important instruments. Although, Total stations were in use in this country for more than a decade now use has increased dramatically in the last few years. In the early stages technical officers were not required to use the Total stations but now they have to use it in the field.

**LEARNING OUTCOMES**

This short course will provide basic knowledge and skills to operate Total stations for the technical officers who have little or no exposure to the Total stations.

At the end of this short course participants should be able to

- a. Setup a TS over a peg;
- b. Measure the vertical and horizontal angle between given points;
- c. Measure distances to given points from the peg; and

**RESOURCE PERSONS**

The details of the staff members involved in this short course program are as follows.

Resource persons: Dr. Terrance M. Rengarasu and Dr. G. N. Samarasekara

**OUTLINE OF SYLLABUS**

Day	Module Content
Day 1	Setup a TS, Angle measurement using Total Station, Distance measurement using Total Station,
Day 2	Data storage, data retrieval, detail survey

**TARGET GROUP**

Maximum number of 25 participants will be enrolled for this short course consisting with technician diploma or have experience as a technician or equivalent.

**ELIGIBILITY REQUIREMENTS**

Equivalent qualification acceptable by the Faculty of Engineering, University of Ruhuna.

## **DURATION/ DATES**

2 Days (when minimum number of applicants reach to 20) from 8:30 am to 4:30 pm at CMSR, Hambantota

## **CERTIFICATE**

Candidates will be awarded with University approved certificate upon successful completion of the programme.

## **MEDIUM**

Sinhala / English / Tamil.

## **COURSE FEE**

Rs. 15,000/= (Including course material and refreshments during the course)

## **APPLICATION**

Download from University web site, Centre for Multidisciplinary Studies and Research at Siribopura, Hambantota or Distance and Continuing Education Unit, University of Ruhuna, Welamadama, Matara.

## **FURTHER DETAILS**

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