



**Priyadarshini Engineering College,
Vaniyambadi-635751.**



Department of Civil Engineering

Cordially invites to the

One day workshop

“Field measurement using Total Station Survey”

4th March 2019 at 9.30 A.M

Venue: Alexander Binnie Seminar Hall

Resource Person

Mr.M. Tamilselvan, B.E.,

Nandi Survey's and Consultancy

Bangalore

In the presence of

Dr.P. Natarajan, M.E.,Ph.D.,FIE

Principal

Convener :Mr.K.Loganathan, M.Tech., HOD/CIVIL

Co-ordinator: Mr. N. Ramesh,M.E., Assistant Professor

INTRODUCTION:

Total station is an electronic/optical instrument used in modern surveying and building construction that uses electronic transit theodolite in conjunction with electronic distance meter (EDM). It is also integrated with microprocessor, electronic data collector and storage system. The instrument is used to measure sloping distance of object to the instrument, horizontal angles and vertical angles. This Microprocessor unit enables for computation of data collected to further calculate the horizontal distance, coordinates of a point and reduced level of point. Data collected from total station can be downloaded into computer/laptops for further processing of information. Total stations are mainly used by land surveyors and civil engineers, either to record features as in topographic surveying or to set out features (such as roads, houses or boundaries). They are also used by archaeologists to record excavations and by police, crime scene investigators, private accident Reconstructions and insurance companies to take measurements of scenes.

WORK SHOP DISCRPTION : Mr.M. Tamilselvan,B.E., Nandi Survey's and Consultancy Bangalore was explained the parts and accessories of the total station and its importance. After the theory class filed measurement was started. The final year students were grouped into group, they started to do work with the total station.

OUTCOMES:

After the workshop the students can able to do following measurement

- Area calculation
- Length , height , distance calculation
- Horizontal and vertical angle calculation
- Project mapping

FIELD MEASUREMENT

