

## **A ONE DAY WORKSHOP REPORT ON TOTAL STATION**

**15 FEBRUARY 2017**

Department of Civil Engineering, PIET has Organized a one day workshop on surveying equipment “Total Station” for 2<sup>nd</sup> year students of Civil Engineering Department successfully on 15/02/2017 under the supervision of Assistant Professor Mr. Saurabh Singh, A Total Station is an electronic-optical instrument used in modern surveying and construction. The workshop aims to provide adequate working knowledge on total stations which are widely in use across civil engineering and other industries. Total 63 participants involved in this workshop.

Objective is to Learn Total Station from basic to advance level, understand site survey procedures and planning workflow, learn various operations of Total Station, Installation of Total Station, Remote height calculation, Area and Volume calculation

Surveying is the science of making all essential measurements to determine the relative position of points or physical and cultural details. In this workshop students will gain sound practical skill along with concepts of total station which is highly demanded by current civil engineering projects.

Whole workshop is divided into 2 session one is dealing with seminar other one with practical part. The information shared in both sessions are given below:

Lecture session: Surveying Introduction, Study of surveying methods and instruments, Traverse Surveying, advantage and disadvantage of Total Station surveying, vertical and horizontal angle measurement mechanism of Total Station

instrument, Define How Total Station works, need of TS orientation, and Define application of survey using TS.

Practical Session: Total Station Initial Settings, Setup station, Setting up back sight and Traverse, Area and volume Calculation.



**Mr. Saurabh Singh**

**coordinator**