

**Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli**  
**Civil Engineering Department**

***Civil Engineering Department organizes***

***One Day Training on***

***“Mapping and Surveying Using Total Station” on 18<sup>th</sup> July 2017***



**Sponsored by:**



***CHIEF-PATRON***

***Dr. Dinesh R. Shah***

***CONVENOR***

***Mr. Kamlesh Gandhi***

**Organized by:**



छोटुभाई गोपालभाई पटेल प्रौद्योगिकी संस्थान, बारडोली  
Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli

***PATRON***

***Dr. Navin C. Shah***

***COORDINATOR***

***Ms. Nikita Patel***

***Ms. Helly Mehta***

- **Total numbers of faculties participated in this training:**

- Nikita Patel
- Urvi Rathod
- Mehul Patel
- Heena Darji
- Kinjal Mistry
- Khyati Mistry
- Maitri Shah

- Department of Civil Engineering had organized one-day Faculty training on “Mapping and Surveying Using TOTAL STATION” on 18-07-2017. This training was conducted by Mr. Tushar Patel, Senior Engineer, Aimil LTD. The primary objective of the session is to give training on total station which is an electronic/optical instrument used in modern surveying and building construction.
- 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). Total Stations are also used by Archaeologists to record excavations. The Total station is designed for measuring of slant distances, horizontal and vertical angles and elevations in topographic and geodetic works, tachometric surveys, as well as for solution of application geodetic tasks. The measurement results can be recorded into the internal memory and transferred to a personal computer interface.
- The basic properties are unsurpassed range, speed and accuracy of measurements. Total stations are developed in view of the maximum convenience of work of the user. High-efficiency electronic tachometers are intended for the decision. It has the broad audience for sole of industrial problems.
- Angles and distances are measured from the total station to points under survey, and the coordinates (X, Y, and Z or northing, easting and elevation) of surveyed points relative to the total station position are calculated using trigonometry and triangulation. Data can be downloaded from the total station to a computer and application software used to compute results and generate a map of the surveyed area.
- A total station is an electronic/optical instrument used in modern surveying. It is also used by police, crime scene investigators, private accident Reconstructionist and insurance companies to take measurements of scenes. The purpose of any survey is to prepare maps; control points formed a basic requirement for the preparation of these maps.









