

Date:

**SPEAK/
WRITE TO
US**

SAKURA Geoinformation Software Research P Ltd
1st Floor, NO.133 , Kolping India National Centre
Velachery Main Road, Guindy
Chennai - 600 032 Tamilnadu, INDIA.

Tel. (+91)-44-4265 8221
Mobile: (+91)9791562466

Email: info@sakuragsr.com
Website: www.sakuragsr.com

ISO 9001:2008 Certified



**2days
workshop**

**On
Total Station &
GIS applied in
Civil Engineering**



Conducted By
SAKURA Geoinformation
Software Research P Ltd
Chennai



SAKURA

SAKURA ACADEMY

www.sakuragsr.com

Tel: 044-4265 8221

Total Station & GIS

This Workshop introduces Total Station usage and GIS to Civil Engineering students. This provides students a deeper understanding of Total Station surveying as well as GIS technology and applications. Students shall learn the mathematical underpinnings of the Total Station Surveying, GIS software and software integration tools.

TOTAL STATIONS

A **total station** is an electronic/optical instrument used in modern surveying. 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.

GEOGRAPHIC INFORMATION SYSTEM-GIS

GIS is a computerized database management system that provides geographic access (capture, storage, retrieval, analysis and display) to spatial data. The technologies and data that are a part of GIS, from web based APIs to satellite and on-the-ground sensors to Unmanned Aerial Vehicles (UAVs) to spatial statistics to Lidar 3D imagery are all rapidly evolving.



SUBJECTS

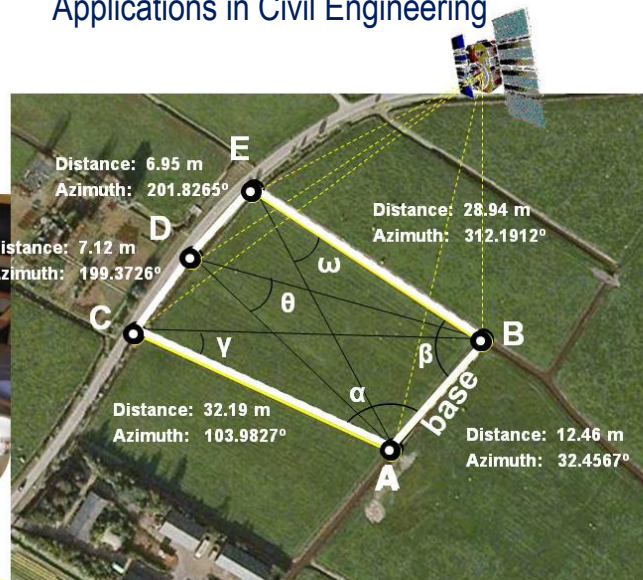
Features and Topics Covered

Total Station

Introduction
Instrumentation & Accessories
Functions & Operations
Accuracy of a Total Station
Applications

GIS

GIS Essentials
Map Creation
Spatial Analysis
MapCAD tools & Uses
Applications in Civil Engineering



Part 1. Preparing a Topographic Data Base

In the first part of the course, participants will prepare a Topographic Data Base of the site using an Electronic Total Station, in order to create a DEM (Digital Elevation Model) and maps in a CAD drawing file.

Part 2. Integrating with GIS Software

The second part deals with the usage of GIS to create maps and analyse. Participants will learn how to use GIS software.

In this way, students will learn how to use an Electronic Total Station, as well as software like Mapinfo and AutoCAD.

FEES

Registration Fee per candidate..... Contact our office