REPORT- WINTER WORKSHOP

Campus Layout using Plane Table and Total Station

Venue:
Krishna Engineering College
Ghaziabad

Coordinators:
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Introduction:

Winter School for 2nd year B.Tech. Civil Engineering students were conducted from 27-02-2016 to 04-01-2017. Students were introduced about conventional and advance techniques used in surveying.

OBJECTIVE:

- To introduce the students with the existing technologies of surveying.
- To provide adequate basic field knowledge of various Civil Engineering related aspects in surveying.
- To acquire knowledge & skills for surveying and campus layout using AutoCAD.

Day 1- Introduced about the program with students and training for using Total station instrument by external agency.

Day 2- Students were given project to make plan of the college campus by method of plane table and by total station. Students briefed about method of intersection in plane table surveying. Students then visited site for reconnaissance and located control points for surveying. Batch was divided into two groups. Plane table surveying was started by students.

Day 3- Students plotted major features of college campus such as AB-1, AB-2, Girls Hostel and basket ball court on drawing sheet by using plane table surveying.

Day 4- Layout of college campus was started using total station after they were given introduction about use of total station.

Day 5- Students continued taking reading of major features of college campus using total station and finished by end of day.

Day 6- The record of job performed by total station was transferred to CAD lab. Students learned important command of AutoCAD to be used for their work.

Day 7- Students draw the plan of college by first importing the data collected by them in total station to AutoCAD and joining points as per layout of college.

Conclusion- Students are now able to use electronic distance measurement device i.e. total station. Also they know the basic concepts of surveying on which all modern instruments are based. They are introduced to AutoCAD which is essential for a civil engineer to know for drafting purposes.