



Department of Civil Engineering
Report on Extensive survey camp: 2021-22

Introduction:

Survey Camp is the civil engineering training course for two weeks usually after completion of 5th semester of bachelor of technology that consists of 10 days working in the field which provides necessary foundation for civil engineers. Students are taken to places like Gatti Subramanya, Kaiwara and Melukote villages to conduct their extensive survey project. Here they conduct various survey projects like new tank, Restoration of old tank, village survey, canal project and highway project. This activity helps the students to gain a better perspective of the subject and also gives them hands on experience to the project.

Aim:

Basic aim of the survey camp is to know various works carried out in the industrial field by surveying, which includes determining the topography of particular area with the help of survey work, map study, reconnaissance work, traversing, levelling and contouring.

Objectives:

This course will enable students to

1. Understand the practical applications of Surveying.
2. Use Total station and other Measurement Equipments.
3. Work in teams and learn time management, communication and presentation skills

Procedure

A camp in charge teacher appoints group leaders for each group; the leaders are responsible for all the works of his particular group and the equipment. In the computer lab, students learn applications such as AutoCAD. The students use these programs to take data collected from the field to develop topographic maps of the particular area. The working rule used in survey camp is quite simple; all the groups of students are allotted different stations for survey work. For first couple of days, the students carry out traversing work to determine length of different sides of traverse and included angles between them. Coordinates of each side are also determined by formulas, $\text{Latitude and Departure} = L \times \text{where } L \text{ is the length of the side and } \alpha \text{ is the angle which the side makes with North or South directions}$ (the instruments used in traversing include Total Station or Theodolite with stand, Compass with stand, ranging rods and measuring tape). Then in next step RL (reduced level) of each station is determined with reference to permanent benchmark (the instruments used to determine reduced level include Auto Level with stand and



Levelling Staff). Then RL of different points keeping specified spacing between them with reference to each station is determined. The points having same RL are joined to form contour lines and thus a topographic map of an area is prepared using AutoCAD

Outcomes:

In Survey camp, students obtain extensive hands-on experience in the use of land surveying instruments and in the essentials of survey practice. Measurements of distances and angles, calculation and correction of errors are introduced. Concepts of higher order surveys and satellite navigation are reviewed and illustrated. Thus students learn surveying practically, this gives them confidence to work (with good precision and accuracy) in Industrial fields in the future.

After studying this course, students will be able to:

1. Apply Surveying knowledge and tools effectively for the projects
2. Understanding Task environment, Goals, responsibilities, Task focus, working in Teams towards common goals, Organizational performance expectations, technical and behavioral competencies.
3. Application of individual effectiveness skills in team and organizational context, goal setting, time management, communication and presentation skills.
4. Professional etiquettes at workplace, meeting and general
5. Establishing trust based relationships in teams & organizational environment
6. Orientation towards conflicts in team and organizational environment, Understanding sources of conflicts, Conflict resolution styles and techniques.

About 2021-22 Survey Camp:

A Survey camp of 11 days was conducted between 6/4/2022 to 19/4/2022 at Gatti Subramanya and our college surrounding for 3rd year students by department of civil engineering, SEACET, Bangalore, Karnataka. HOD Mr. Nishanth L arranged and coordinated this camp along with the faculty of civil engineering department. Total 13 students participated in camp. Principal Dr. B Venkatanarayana encouraged and supported us for arranging and successful conduction of this camp.



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Extensive Survey Camp Batch Students 2021-22



Old Tank Project



Highway Project



New Tank Project



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Village Survey



New Tank Project

HOD, CV