



Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY

(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120

(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)

1.3.3 Number of Final Year Students Branch-wise for the Academic Year 2020-21

INDEX FILE

Sl No	Contents	Number of Students
1	Computer Science & Engineering	82
2	Electronics & Communication Engineering	56
3	Electrical & Electronics Engineering	26
4	Mechanical Engineering	62
5	Mining Engineering	40
6	Civil Engineering	29

1.3.3 Number of Third Year Students Branch-wise for the Academic Year 2020-21

INDEX SHEET for MINI PROJECT, EXTENSIVE SURVEY and INDUSTRIAL VISIT

Sl No	Contents	Number of Students
1	Computer Science & Engineering	73
2	Electronics & Communication Engineering	28
3	Electrical & Electronics Engineering	17
4	Mechanical Engineering	49
5	Mining Engineering	39
6	Civil Engineering (Extensive Survey & Industrial Visit)	17



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DEPARTMENT OF CIVIL ENGINEERING

Report on Extensive Survey Camp:

Introduction:

Survey Camp It is the civil engineering training course for two weeks usually after completion five semesters of bachelor of technology that consists of 10 days working in the field for map preparation and. the survey camp provides necessary foundation for civil engineers.

Students are taken to places like Bathamangala, holagamati and Kawara villages to conduct their extensive survey project. The project where they conducted 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

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, **Latitude** and **Departure**= $L \times \sin \theta$ where L is the length of the side and θ 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



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or with the help of plane table survey.

Results

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.



Extensive survey new tank project AY-20-21



Extensive survey Old tank project AY-20-21



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Report on Industrial Visit:

Department of Civil Engineering organized an educational visit to Water treatment plant at Bathamangala on 11 March 2021. The objective of the visit was to enhance the knowledge of Engineering Chemistry, Water treatment, and Water quality testing among the students and help them understand the process of converting raw water into drinking water. It was an enlivening experience in which the students got a chance to get themselves familiar to the practical knowledge of the different stages of water purification. The visit was an informative experience satisfying the curiosity of engineering students and also helped in creating an environmental awareness among them.



Department of civil Engineering organized an Industrial Visit to BRICK KILN on -11 March 2021. The students learnt how the bricks are manufactured. Students gained the practical knowledge of preparation of brick earth, operation of pug-mills, moulding of bricks, burning operations & various field tests to assess the quality of bricks

