

5.8 SURVEY CAMP

L	P
-	2

RATIONALE

The aim of this subject is to impart intensive training in the use of surveying instruments. The students will appreciate practical difficulties in surveying on the field and it will make the students conversant with the camp life in order to enable the students to work in the survey field comfortably.

COURSE OUTCOMES

At the end of the open elective, the students will be able to:

- CO1: Interpret the contours
- CO2: Work in a teamwork
- CO3: Draw road alignment of a given gradient connecting any two stations on the map
- CO4: Calculate the earth work
- CO5: Prepare a topographical plan of a given area

PRACTICAL TASK

Preparation of topographical plan of a given area. The survey camp will be organized for a duration of 10 days time span.

The students may be assigned an undulated area of about 1.5 to 2.00 sq.km. with level difference of 15m consisting of good number of physical features such as buildings, roads, bridges, culverts, railway tracks, electric lines etc. They are required to prepare the topographic map of above areas showing various features along with contours using a suitable contour intervals. They will mark a road alignment of given gradient connecting any two stations on the map consisting some horizontal and vertical curves and will prepare estimate of earthwork and submit the detailed technical report indicating therein practical difficulties faced during surveying for the features like ridge, line, valley lines, saddle cliffs etc.

The students should be divided in the groups consisting of 10-15 in numbers. They are required to submit the Report of work done, during survey camp, which will be dully examined, while awarding the internal assessment.