

## Workshop on Laying Out of Building Plan or Foundation Trenches

Date: 2<sup>nd</sup> Oct, 2015

Time: 9:00 am to 4:00 pm



### Objective-

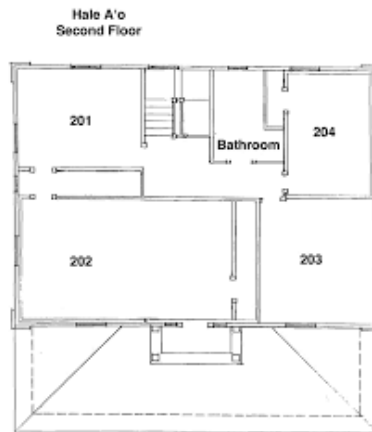
The main objective of the Workshop was to setting out of building plan or foundation trenches on ground. Foundation trenches were drawn by two methods:

- (i) Manual method (ii) Using Theodolite



### Summary:

Laying out of foundation trenches was done at the backside of the admin building of S.R. Patel engineering college itself. Equipments required for the laying out building plan were: Theodolite, String, Wooden Peg, White powder, Steel tap. First a residential building plan is prepared on autocad. With reference to corner point first, a centre line is drawn with the help of string, peg steel tap and white powder. By considering that line as a base line, a perpendicular line is drawn by two methods i.e. Pythagoras theorem (manually) and using theodolite. After the laying out of centre line, foundation trench lines are also drawn at the required projection from centre line. Similarly all the foundation lines are drawn as required in the building plan.



### Course Participant:

Workshop was organized for the students of 3<sup>rd</sup> Semester, Civil Engineering. Students are divided into 3 groups. Therefore, 3 no of groups are formed to prepare building plan on ground. Total two building plans were drawn at the ground.

### Workshop In charge:

Prof. Vineet Jain

Prof. Hiren V. Patel

Prof. Amar Y. Salariya