II YEAR B TECH I SEM
SURVEYING & GEOMATICS LAB

COURSE DESCRIPTION:
The surveying laboratory is equipped with the instruments and tools that students use throughout the surveying course. Each lab group-typically three students has a dedicated set of instruments to use, Auto level, theodolite, and total station.

List of Experiments

1. Study of theodolite in detail – practice for measurement of horizontal and vertical angles." 
2. Measurement of horizontal angles by method of repetition 
4. Trigonometric Leveling – Heights and distance problem (Two Exercises)."
5. Heights and distance using Principles of tachometric surveying (Two Exercises)"
6. Curve setting – different methods. (Two Exercises) 
7. Setting out works for buildings & pipe lines. 
8. Determination of area using total station. 
9. Traversing using total station. 
10. Contouring using total station. 
11 Determination of remote height using total station. 
12 Distance, gradient, Diff. height between two inaccessible points using total stations."