






Surveying Field Work

The Survey Laboratory is equipped with measuring tools for distance, vertical and horizontal angles, and elevation. In lab sessions, students gain proficiency in a variety of techniques for gathering field data using traditional, modern, and advanced instruments. Total station instruments, hand-held and GPS units, Vernier Theodolites, Dumpy levels, Prismatic and Surveyor Compass units, Plane table with accessories, and other instruments are available in the lab. It is very spacious and can accommodate more students in each session to be demonstrated with sophisticated facilities and well-qualified trained professionals.



S.No	Name of the Equipment	Description	Image
1	Total Station survey Equipment. (Pentax A-205NE)	It is a surveying instrument combination of Electromagnetic Distance Measuring Instrument and Electronic Theodolite. The Instrument can be used to measure horizontal and vertical angles as well as sloping distance of object, widely used in construction activities, Alignment of Highway and Railway works and also in mine survey works.	
2	Auto level	It is an Optical Instrument used to establish or verify points in the same horizontal plane. It is used in used in surveying and building with a vertical staff to measure height differences and to transfer, measure and set heights quickly	

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3	Theodolite	<p>It is a surveying instrument. The Instrument can be used to measure horizontal and vertical angles widely used in construction activities.</p> <p>Locating points on line, Ranging curves, setting out grades, tachometric surveying</p>	
4	Prismatic compass	<p>A prismatic compass is a navigational and surveying tool that is used to assess the bearing of traversing and the angles between them, as well as waypoints and direction. Because of its simplicity, it can be utilized in land surveys, preliminary surveying, road surveying, and rough navigating where great precision is not required</p>	

S.No	Name of the Equipment	Description	Image
5	Plane table	A plane table is an instrument employed in surveying site the mapping process, exploration mapping, coastal navigation mapping, and similar disciplines to offer a firm and level surface for making field drawings, charts, and maps.	
6	Metric chain	Chain surveying is a technique for modest surveys to identify plot boundaries and find existing features. The area is partitioned into triangles, and the edges of the triangles are measured in a square field using a chain or tape, with no angular measurements obtained.	