

Surveying Lab

Lab-In-Charge: Prof. K. C. Tiwari

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About the Lab:

The laboratory of Surveying is well equipped with all the required instruments and tools that are helpful in the overall understanding and practical knowledge of a student. Students learn techniques for gathering field data with both traditional and modern instruments.

List of Equipment:

1. Vernier Theodolite
2. Auto/Digital level
3. Prismatic Compass
4. Total Station
5. Plane Table
6. Tripod, Alidade, Plumbing Fork, Spirit level, Trough Compass, U- Frame
7. Line Ranger, Optical Square/Cross staff
8. Metric Chain

List of Experiments

1. To plot the map of area by chain surveying.
2. To run a traverse using a prismatic compass or chain & Tape.
3. To run a plane table survey and locate the details of confined area using the method-

Radiation, Intersection, Resection.

4. To locate the position of a plane table station on the drawing sheet by two- point method.
5. To locate the position of a plane table station on the drawing sheet by three- point method.
6. To run a traverse lines & plotted directly on the drawing paper to a suitable scale in the field using a plane table traversing method.
7. To find the reduced level of various point using a dumpy level.
8. To measure the horizontal angle by repetition method using a theodolite.



Vernier Theodolite



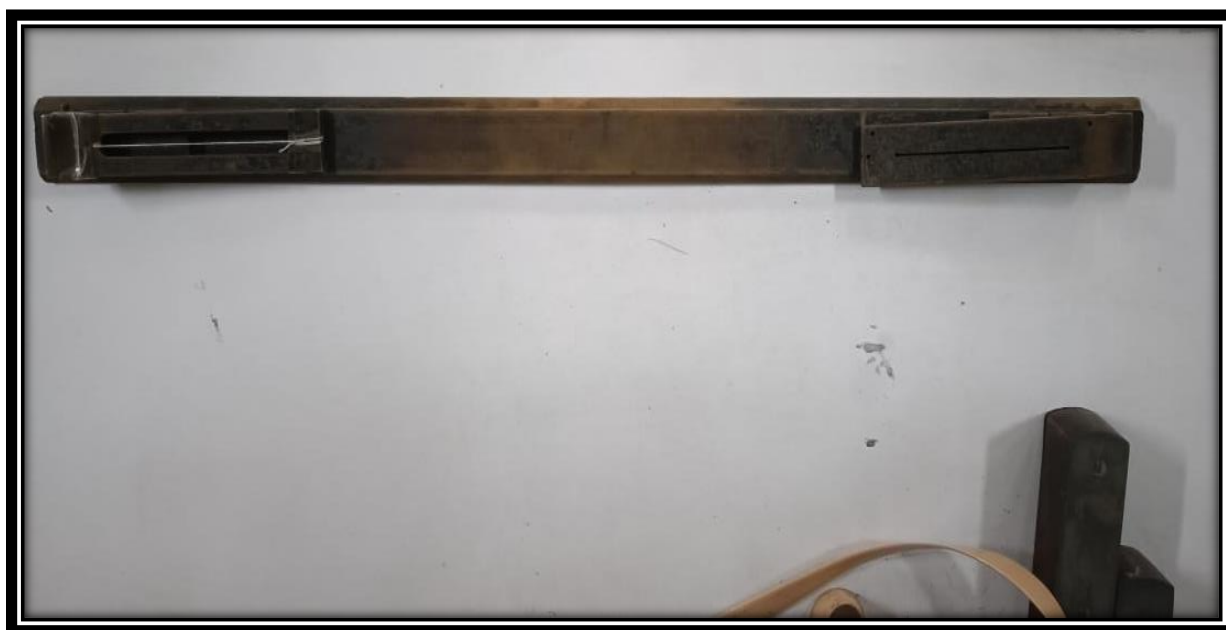
Dumpy level



Chainage



Trough Compass



Alidade



Levelling and Tripod Stand

