



Department of Civil Engineering
SURVEYING LABORATORY II

LIST OF EXPERIMENTS

1. Study of parts of ordinary theodolite and its temporary adjustment.
2. Measurement of horizontal angle using theodolite by repetition and reiteration method.
3. Measurement of vertical angle using theodolite.
4. Finding the elevation of distant objects using trigonometric levelling.
5. Plotting a closed traverse using theodolite.
6. Study of tachometer, graduated staff and its temporary adjustment.
7. Determination of constants K and C of tachometer.
8. Location of details by tachometric methods.
9. Study of total station and its applications in the field work.
10. Setting out works by total station.

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LIST OF EXPERIMENTS

1. Chaining and ranging a line and recording the details on a field book.
2. Setting out right angles on a chain line using tape.
3. Taking offsets and setting out angles using cross staff and optical square.
4. Testing and adjustment of chain for different errors.
5. Field work in compass surveying by measurement of angles between the lines meeting at a point.
6. Compass traversing and taking observations for different field conditions.
7. Study of plane table equipment and its temporary adjustments.
8. Plotting a plane table traverse using method of radiation and intersection.
9. Orientation of plane table by two point and three point problem.
10. Study of level and levelling staff and temporary adjustment of instruments.
11. Recording of data in field book during levelling.
12. Taking longitudinal and cross section of road.













