

SURVEYING ENGINEERING LABORATORY

LIST OF EXPERIMENTS

Subject: SURVEYING ENGINEERING

List Of Title Experiments

Chain surveying in the field.

Setting out of building according to plan with Theodolite and Fiberglass tape.

Perform ordinary leveling in the field.

Conduct precise leveling in the field using parallel plate Micrometer and precise staves (FPS & SI system)

Measurement of Horizontal and Vertical Angles with Theodolite in the field.

Observation of Magnetic Bearings with prismatic compass in the field.

To orient a Building plan in the field with primate compass

Conduct Tachometric Surveys in the field.

Perform Topographic Surveys in the field with plane table.

Horizontal Angles Measurement of the scheme

EDM Calibration

Measurement of base line with steel tape applying tape corrections

Measurement of Base line with EDM

Layout of Simple circular curve in field

Layout of Reserve curve in field.

Layout of Composite curve in field

Layout of Vertical curve in field



Layout of Compound in field

Computation (Table Work)

Plotting of Schemes with independent coordinates.

Field Astronomy (Solar Observation with 5" Theodolite)

Identification of north star and pole star at night.

Plotting of sounding by one circle method.

Plotting of sounding by two circles method.



Location of true north by cyro scope.

Using ground photogrammetry for improving elevation of the existing buildings.

Using G.P.S for calculation of Latitude, Longitude and sea level.

