

GYAN SAGAR COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SURVEYING LAB

LIST OF EXPERIMENT

- 1) Measurement of distance by ranging and chaining.
- 2) Locating various objects by chain & cross staff surveying.
- 3) Determination of area of polygon by chain and cross staff survey.
- 4) Measurement of bearings of sides of traverse with prismatic compass and computation of correct included angle.
- 6) Determination of elevation of various points with dumpy level by collimation plane method and rise & fall method.
- 7) Fixing bench mark with respect to temporary bench mark with dumpy level by fly leveling and check levelling.
- 8) L-Section and cross section of road.
(One full size drawing sheet for L-Section and cross section)
- 9) Measurement of horizontal angles theodolite by method of repetition.
- 10) Measurement of vertical angles with theodolite.
- 11) Determination of horizontal distance between two inaccessible points with theodolite.
- 12) Locating given building by theodolite traversing.
- 13) Locating given building by plain table traversing.
- 14) Three point problem in plane table traversing.
- 15) Determination of elevation of point by trigonometric levelling.
- 16) Contour plan of given area.
(One full size drawing sheet)
- 17) Study of planimeter.
- 18) Determination of area of irregular figure by using planimeter
- 19) Study of Box Sextant, Abney Level, Optical Theodolite.
- 20) To give layout of given plan of building.