Land Surveying

Course Description

Land Surveyors are in great demand in various sectors including oil &gas, mining, infrastructure, construction, civil engineering etc. Land surveyor education is mostly associated with civil engineering discipline. Most of the surveyors have informal education, through work experience, restricting their growth option. This course meets the long felt need for skilled manpower in this field.

Instructional Methodology

This course is a self-guided offline course. Students have 15 Days to complete the curriculum but may work at their own pace throughout the course. Lessons are presented in written format, video formatand have a hands-on assignment at the end of each learning module.

Course Content

- Auto level
  - Basic knowledge of elevation
  - Knowledge of Chart Datum.
  - Knowledge of Plan Grid.
  - Differential of leveling
  - Checking of machine error.
  - Knowledge of all kind of level machine.
  - Live project Training
  - Making Report
- Total Station Survey
  - Knowledge of machine setup
  - Topo Graphic Survey
  - Stakeout survey
  - Stakeout (Road , Line curve, circle, etc.)
  - Re – section
  - Knowledge of Prism contrast
  - Offset making
  - Knowledge of Cogo calculation
  - Knowledge of coordinate calculation

    - Cut & fill volume
    - Area Calculation
    - Traverse checking
    - Establishing new bench mark
    - Live project Training
    - Making Report
- Global Positioning System (GPS)
    - Knowledge of GPS
    - Knowledge of Real Time Kinematic (R.T.K) System
    - Stakeout paint line curve
    - Making Offset
    - Topo Graphic Survey
    - Using Cogo System for calculation.
    - Data Import & export
    - Knowledge of making report
- Rotating Laser Level
- Digital Level
- Theodolites
- Dumpy Level