CES1101: Preliminary Surveying I

Hours per Semester				Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment Mark	Credit Units
LH	PH	TH	CH	WTM	WE	WCM	CU
15	30	0	30	100	60	40	2

Course description

The beginners course in surveying. This course includes the very basics of surveying concepts and methods of measurement, using such equipment as tapes, rods, compass and hand held clinometers. The course is just to kick start the student in surveying.

Objectives

- The purpose of this course is to introduce the student to what is meant by surveying, both theoretically and in practice.
- Grasp the student's interest in achieving by doing.
- Help the students to get to know each other and to work as a team.

Course outline

- Units of measurement of length and angle;
- Simple measurement equipment and its care;
- The 3D reality recorded on a 2D medium;
- Orientation;
- Establishment of survey stations;
- Control and detailing;
- Difference between a geometric and a survey line;
- Ranging;
- Well conditioned geometric figures;
- Measurement of angles;
- Measurement of elevation;
- Picking of detail;
- Scale and plotting;