CES1104: Introduction to Field Data Collection

LH	PH	TH	CH	WTM	WE	WCM	CU
45	0	0	45	100	60	40	3

Course Description

Field Data Collection for the Civil Engineer is the first basic professional activity of the Civil Engineering Surveyor. It is the fieldwork of Surveying, but with a flexible approach suitable to the collection of field data (detail, features) that would be needed by the Civil Engineer. This course is a theoretic introduction and covers the background to field data collection.

Objectives

- The purpose of this course is to introduce Surveying in its general concept
- It shows the distinction between Civil Engineering Surveying and other types of Surveying, particularly Land Surveying with which it is often mistaken
- It presents the idea of field data collection for the Civil Engineer (inclusive) and how this differs from data collection in other forms of surveying (sampling)
- Field data collection is then expanded into its practical elements and constraints
- The first notions of the principles on which to act are introduced
- The major practical experiences to be encountered in the field are illustrated
- Many of the basics of instruments are introduced