Course unit title:	Engineering Drawing
Course unit code:	CE100
Type of course unit:	Compulsory
Level of course unit:	Bachelor (1st Cycle)
Year of study:	1
Semester when the unit is delivered:	1 (Fall)
Number of ECTS credits allocated :	5
Name of lecturer(s):	Dr. Christakis Onisiphorou
Learning outcomes of the course unit:	1. Develop an understanding of drawing techniques and the importance of communication through engineering drawings. 2. Recognize AutoCAD layout, layers, various drawing commands, drawing layout, printing and plotting and 3. Modify AutoCAD drawings, apply corrections and modifications. 4. Organise engineering drawings using suitable AutoCAD commands and facilities. 5. Apply drawing skills in drawing plans, elevations and sections. 6. Reproduce three dimensional objects to two dimensional drawings and vice versa. 7. Develop complete engineering drawings for construction projects using AutoCAD.
Mode of delivery:	Face-to-face
Prerequisites:	Co-requisites:
Recommended optional program components:	
Course contents:	**Introduction:** Basic concepts in engineering drawing and various types of drawings for construction projects. Introduction to the Autocad environment. **"Draw" tools:** Explanation of the "DRAW" toolbox and use of drawing commands in Autocad files. Understanding of the coordinate system. Application of "SNAP", "GRID", "OSNAP", "ORTHO". **"Modify" tools:** Explanation and use of the "MODIFY" toolbox. Application of commands to prepare simple drawings. **Organisation of Work:** Explanation for creating and using "BLOCKS" and "LAYERS" to organize the work in the drawing file. **View:** Application of commands "ZOOM" and "PAN" to view drawings. **Dimensions and Text:** Different types of dimensions. Modification of dimension styles and insertion of dimensions in drawings. Use of various types of text. Modifications of text styles and insertion of text in drawings. **Printing:** Model and Paper Space representations. Viewports. Scale in drawings.
Recommended and/or required reading:	
Textbooks:	Stephen J. Ethier and Christine A. Ethier, *Instant AUTOCAD: Essentials Using AutoCAD*, Prentice Hall, 2003.
References:	- Mark Dix and Paul Riley, *Discovering AutoCAD*, Prentice Hall, 1997. - James M. Kirkpatrick, *Engineering Drawings and Models Using AutoCAD solid Modelling and Designer*, Prentice Hall, 1997.

Planned learning activities and teaching methods:	The course will be presented through theoretical lectures in class and practical work in the computer laboratory. The lectures will present to the student the course content and allow for questions. All of the material will be presented using visual aids. The aim is to familiarize the student with the different and faster pace of presentation, allow the instructor to present examples through visual aids in order to facilitate the understanding of students, and also allow the instructor to present related material (completed drawing examples, demonstrating commands etc.). The learning process will be enhanced with the requirement from the student to complete example drawings and also assignments as part of the coursework assessment. Notes can also be taken by students in class, but all of the course material will be made available through the class website on e-learning platform. Finally the instructor will be available to students during office hours or by appointment in order to provide any necessary tutoring.
Assessment methods and criteria:	• Assignments 50% • Final Exam 50%
Language of instruction:	English
Work placement(s):	No