ECTS

(B) Course information in english

General course information:

Course title:	Technical Drawing and CAD	**Course code:**	ΓΚ0501
Credits:	3	**Work load (hours):**	159
Course level:	Undergraduate ☑	Graduate ☐	
Course type:	Mandatory ☑	Selective ☐	
Course category:	Basic ☑	Orientation ☐	
Semester:	1th	**Hours per week:**	4
Course objectives (capabilities pursued and learning results):			
Introduction to the basic techniques for drawing structural elements. Basic equipment for the design. Drawing format. Drawing line types.Mapping of space elements. Projective geometry. Scales. Architectural drawing. Building survey. Plan views, elevations, cross sections, staircase detail. Dimensions. Introduction to technical drawing with the use of computer software – CAD: Basic commands. Plan views, elevations, cross sections. Dimensions. Creating text. Plot a drawing. Semester project.			
Prerequisites:			

Instructor's data:

Name:	Alexandros Koutselinis
Level:	ΕΤΕΠ (in Greek)
Office:	Civil Engineering Faculty University of Thessaly Pedion Areos, 38334 Volos, Greece
Tel. – email:	+30 24210-74373, akoutsel@civ.uth.gr
Other tutors:	Theoharis Papatheocharis-

Specific course information:

Week No.	**Course contents**	**Hours**	
		Course attendance	**Preparation**
1	Introduction to the basic techniques for drawing structural elements. Basic equipment for the design.	4	1

2	Drawing format. Drawing line types. Pattern drawings with the use of grid.	4	3
3	Introduction to technical drawing with the use of computer software – CAD. Mapping of space elements. Projective geometry.	4	3
4	Basic commands for technical drawing with the use of CAD software.	4	3
5	Dimensions. Line drawing of a staircase with the use of CAD.	4	3
6	Technical drawing with the use of CAD software: Plan views.	4	3
7	Technical drawing with the use of CAD software: Elevations.	4	3
8	Technical drawing with the use of CAD software: Cross sections	4	3
9	Line drawing of a building. External walls with insulation, external openings.	4	1
10	Line drawing of a building. Internal walls, internal openings. Dimensions	4	1
11	Scales. Architectural drawing. Building survey.	4	1
12	Dimensions, creating text with the use of CAD software.	4	2
13	Assignment: object drawing with the use of CAD software.	4	2
14	Assignment: construction drawing with the use of CAD software. Plot a drawing.	4	3

Additional hours for:			
Class project	**Examinations**	**Preparation for examinations**	**Educational visit**
	4	3	

Suggested literature (in Greek):
1. Σαμίρ Μπαγιούκ **Τεχνικές Σχεδιάσεις** Βασικές αρχές Εκδ. σοφία 2. Γιάννης Θ. Κάππος **Δουλέψτε με το AutoCAD 2017** Εκδ. Κλειδάριθμος

Teaching method *(select and describe if necessary -* **weight***):*		
Teaching	☑	.20%

Seminars	☐	…….%
Demonstrations	☐	…….%
Laboratory	☑	..40....%
Exercises	☑	..40....%
Visits at facilities	☐	…….%
Other *(describe):* …….	☐	…….%
Total		100%

Evaluation method *(select)*- **weight:**				
	written	*%*	*Oral*	*%*
Homework	☐		☐	
Class project	☑	50%	☐	
Interim examination	☐		☐	
Final examinations	☑	50%	☐	
Other *(describe):* ……	☐		☐	