



COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Technology		
ACADEMIC UNIT	Department of Environmental Sciences		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	AE813	SEMESTER	8o
COURSE TITLE	COMPUTER AIDED DESIGN		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Teaching Hours		3	3
COURSE TYPE	Skills development		
PREREQUISITE COURSES	None		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://eclass.uth.gr/courses/ENV_U_197/		

(2) LEARNING OUTCOMES

Learning outcomes
Upon successful completion of the course, students will: • Have acquired knowledge of the principles of design and technical design. • Be trained to use design software. • Be able to read, edit and produce technical designs.
General Competences
• Search for, analysis and synthesis of data and information, with the use of the essential technologies • Decision-making • Working independently • Team work • Production of new research Working ideas • Respect for the natural environment • Production of free, creative and inductive thinking

(3) SYLLABUS

• Introduction to the basic concepts of technical communication. • Types of technical designs, elements and basic rules for constructing a technical design, reading and interpreting a technical drawing. • Drawing with CAD commands, projections, rules and limitations of their technical representation. • Dimensioning rules. • Elements of descriptive Geometry. • Drawing technical drawings with the help of a computer. • Drawing topographic points, land areas.

(4) TEACHING and LEARNING METHODS – EVALUATION

DELIVERY	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	• Use of PowerPoint slides and video projections • Use of computer design software/s • Communication with students via e-mail • Use of asynchronous distance learning (e-class)	
TEACHING METHODS	Activity	Semester workload
	Lectures	13
	Laboratory practice	26
	Study and analysis of bibliography	20
	Writing assignments	16
	Course total (25 hours workload per credit)	75
STUDENT PERFORMANCE EVALUATION	Students' performance is evaluated in the Greek language. The final grade is determined by: • An optional written exam (before the end of the semester) that forms 40% of the final grade. • A written exam (at the end of the semester) that forms 60% of the final grade or 100% if there is no optional exam grade. Final Grade = 60% Exam Grade + 40% Optional Exam Grade (with optional exam) Final Grade = 100% Exam Grade (without optional exam)	

(5) ATTACHED BIBLIOGRAPHY

• Gonos, I. F., Polykrati, A. D. (2021) <i>Drawing for Electrical Engineers</i> (2nd ed). Thessaloniki: TZIOLA Publications. ISBN: 9789604189281. (in Greek) • Kappos, G. T. (2021) <i>Work with AUTOCAD</i>. Athens: Kleidaritmos Publications. ISBN 9789606452345. (in Greek) • Sarafis, H., Tsembeklis, S., Kazanidis, O. (2016) <i>Technical Drawing with AUTOCAD in simple self-contained lessons</i>. Thessaloniki: Disigma Publications. ISBN: 978618524202. (in Greek) • Vovos, P., Topalis, E. (2016) <i>Technical Drawing for Electrical Engineers</i> (2nd ed). Thessaloniki: ZITI Publications. ISBN: 9789604564620. (in Greek)
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