1.1.1 Building Construction II

GENERAL

SCHOOL	Engineering			
ACADEMIC UNIT	CIVIL ENGINEERING			
LEVEL OF STUDIES	Undergraduate			
COURSE CODE	ΔOM022 SEMESTER 7th			
COURSE TITLE	Building Construction II			
INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits		WEEKLY TEACHING HOURS	CREDITS	
			4	5
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).				
COURSE TYPE general background, special background, specialised general knowledge, skills development	Specializatio	n Course		
PREREQUISITE COURSES:				
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek			
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No			
COURSE WEBSITE (URL)	https://elearning.cm.ihu.gr			

LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
 Guidelines for writing Learning Outcomes

Upon completing this course students should be able to address unique constructional issues and propose solutions for them. They should be able to choose appropriate materials from the available industry and substantiate their choice. They should be able to navigate through a wide range of sources to formulate their proposal, produce the respective constructional drawings and provide for technical specifications, maintaining references to the building's drawings. Finally, they should be able to organize constructional information for the building's construction specifications.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology Adapting to new situations Decision-making Working independently Team work Project planning and management Respect for difference and multiculturalism Respect for the natural environment Showing social, professional and ethical responsibility and sensitivity to gender issues Criticism and self-criticism

Working in an international environment Working in an interdisciplinary environment Production of new research ideas	Production of free, creative and inductive thinking Others			
-Search for, analysis and synthesis of data and information, with the use of the necessary technology				
-Adapting to new situations				
-Decision-making				
-Working independently				
-Team work				
-Project planning and management				
-Respect for the natural environment				
-Criticism and self-criticism				
-Production of free, creative and inductive thinking				
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SYLLABUS

This course aims to train students to provide solutions for advanced constructional issues in a building. Special issues in thermal insulation, water protection, acoustic protection, fire-resistance, staircase detailing, special flooring, structural glazing, wall cladding are presented and analyzed. Students learn to use a variety of sources to propose solutions, materials and building specifications. Starting from smaller exercises, they work on a project throughout the semester where all these issues are implemented. Courses are enhanced by visits to construction sites and buildings, where students are also handed out related assignments.

TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face to face.		
Face-to-face, Distance learning, etc.			
USE OF INFORMATION AND	Powerpoint presentations, e-learning platform for		
COMMUNICATIONS TECHNOLOGY	educational material		
Use of ICT in teaching, laboratory education,			
	A		
The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice,	Activity	Semester workload	
	Lectures	25	
	Practice/exercises	25	
fieldwork, study and analysis of bibliography,	Individual study	30	
tutorials, placements, clinical practice, art	Project(s)	20	
visits, project, essay writing, artistic creativity.	Project(s)	30	
etc.			
The student's study hours for each learning			
directed study according to the principles of the	Course total (26 hours workload	120	
ECTS	per ECTS credit)	130	
STUDENT PERFORMANCE			
EVALUATION	Final written examination (50%)		
Description of the evaluation procedure	Compulsory assignment/project (50%)		
Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open- ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other			
Specifically-defined evaluation criteria are given, and if and where they are accessible to			

ATTACHED BIBLIOGRAPHY

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-[In Greek]. Ζαχαριάδης Α., "Οικοδομική Τεχνολογία" University Studio Press, Θεσσαλονίκη, 2004.

-[In Greek]. Καλογεράς Ν., Κιρπότιν Χ., Μακρής Γ., Παπαϊωάννου Ι., Ραυτόπουλος Σ., Τζίτζας Μ.,

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ανακαίνιση», Θεσσαλονίκη : Κτίριο - Επιλογή στη Δόμηση Ε.Π.Ε., 2006.

-[In Greek]. Schmitt H., Heene A. "Κτιριακές κατασκευές : τα δομικά στοιχεία και η συναρμογή τους : βασικές αρχές της σύγχρονης δόμησης" μετάφραση Δ. Μαλασπίνας, εκδ. Μ. Γκιούρδας , Αθήνα 1994.

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-[In Greek]. Schittich, C. Glass Construction Manual, Birkhäuser Architecture; 2nd, revised and expanded ed. Edition, 2007