### Building Construction ΙΙ

**GENERAL**

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| --- | --- | --- | --- | --- | --- |
| **SCHOOL** | Engineering | | | | |
| **ACADEMIC UNIT** | Civil Engineering | | | | |
| **LEVEL OF STUDIES** | Undergraduate | | | | |
| **COURSE CODE** | ΔΟΜ022 | **SEMESTER** | | 7th | |
| **COURSE TITLE** | Building Construction ΙΙ | | | | |
| **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* | Specialization 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**

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| --- | --- |
| **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*  *Working in an international environment*  *Working in an interdisciplinary environment*  *Production of new research ideas* | *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*  *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 | |

**SYLLABUS**

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| 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**

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| --- | --- |
| **DELIVERY** *Face-to-face, Distance learning, etc.* | Face to face. |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Powerpoint presentations, e-learning platform for educational material |
| **TEACHING METHODS**  *The manner and methods of teaching are described in detail.*  *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.*  *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS* | |  |  | | --- | --- | | ***Activity*** | ***Semester workload*** | | Lectures | 25 | | Practice/exercises | 25 | | Individual study | 30 | | Project(s) | 20 | | Project(s) | 30 | |  |  | |  |  | |  |  | |  |  | | Course total (26 hours workload per ECTS credit) | ***130*** | |
| **STUDENT PERFORMANCE EVALUATION**  *Description of the evaluation procedure*  *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 students.* | Final written examination (50%) Compulsory assignment/project (50%) |

**ATTACHED BIBLIOGRAPHY**

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-[In Greek]. Καλογεράς Ν., Κιρπότιν Χ., Μακρής Γ., Παπαϊωάννου Ι., Ραυτόπουλος Σ., Τζίτζας Μ.,
  
-[In Greek]. Τουλιάτος Π. ‘’Θέματα Οικοδομικής’’, Ε.Μ.Π., εκδόσεις Συμμετρία, Αθήνα, 1999.
  
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-[In Greek]. Πρεφτίτση, Φ. Γ., «Μεταλλικά κτίρια: είδη μετάλλων, σχεδιασμός, κατασκευή, προστασία,
  
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