

### 1.1.1 Urban planning, urban space implementation of building regulations

#### GENERAL

<b>SCHOOL</b>	Engineering		
<b>ACADEMIC UNIT</b>	CIVIL ENGINEERING		
<b>LEVEL OF STUDIES</b>	Undergraduate		
<b>COURSE CODE</b>	ΔOM011	<b>SEMESTER</b>	5th
<b>COURSE TITLE</b>	Urban planning, urban space implementation of building regulations		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>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</i>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>
		4	5
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	Scientific Field		
<b>PREREQUISITE COURSES:</b>			
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEBSITE (URL)</b>	<a href="https://elearning.cm.ihu.gr/course/view.php?id=739">https://elearning.cm.ihu.gr/course/view.php?id=739</a>		

#### LEARNING OUTCOMES

<p><b>Learning outcomes</b></p> <p><i>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.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul>
<p>Upon completing this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Recognize and define Urban Planning and Urban Design concepts - Understand and use of the relevant terminology – Analyze small urban areas.</li> <li>• Understand the purpose of and be able to apply basic Building Regulations connected to Urban Planning and the urban space formation and production in the contemporary Greek city.</li> <li>• Design (preliminary level – scale 1:100) an urban apartment building of medium architectural complexity, in accordance with the implementation of Regulations: real time data regarding legislation and the site. Also, optimize the configuration of the uncovered area at ground floor level, with a focus on neighborhood sustainability issues.</li> <li>• Evaluate buildings' and urban areas' problems connected with the implementation (or poor implementation) of Urban Planning civic rules and legislation. Provide solutions/ improvement proposals that give incentives for the sustainability of small urban areas and the Greek city.</li> <li>• Participate in urban planning upgrading task-groups of engineers, aiming at rehabilitating existing parts of the city.</li> </ul>

**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 | Project planning and management  |
| Adapting to new situations   | Respect for difference and multiculturalism  |
| Decision-making  | Respect for the natural environment  |
| Working independently  | Showing social, professional and ethical responsibility and sensitivity to gender issues |
| Team work  | Criticism and self-criticism   |
| Working in an international environment  | Production of free, creative and inductive thinking                                      |
| Working in an interdisciplinary environment  | .....  |
| Production of new research ideas   | Others...  |
|  | .....  |

The course contributes to the following skills:

- \_ 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 interdisciplinary environment
- \_ Project planning and management
- \_ Respect for difference and multiculturalism
- \_ Respect for the natural environment
- \_ Criticism and self-criticism
- \_ Production of free, creative and inductive thinking

**SYLLABUS**

The course introduces students to basic concepts of Urban Planning, focusing on the scale of urban space and the objectives of Urban Design. This point of view is also enhanced with aspects of the relevant legislation, as an attempt to connect the public space of the Greek city (form, function, development) with regulations that determine its production in recent decades. Urban phenomena are examined on the basis of sustainability, starting macroscopically and gradually approaching the scale of urban units and buildings.

**TEACHING and LEARNING METHODS - EVALUATION**

<b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i>	Face to face.	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	Powerpoint presentations, E-learning platform for educational material.	
<b>TEACHING METHODS</b> <i>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</i>	<b>Activity</b>	<b>Semester workload</b>
	Lectures	
	Practice/exercises	
	Project(s)	
	Individual study	
	Course total (26 hours workload per ECTS credit)	<b>130</b>

<p align="center"><b>STUDENT PERFORMANCE EVALUATION</b></p>	
<p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>The evaluation of the students is made up of the following:</p> <p>A. Performance in final written exam: 50% of the final grade,  B. Quality of exercises, assignments, and design projects (developed during the semester): 40% of the final grade,  C. Participation in the course procedures (i.e. oral participation, meeting deadlines for handing in written work): 10% of the final grade.</p> <p>The evaluation criteria are listed in the introductory handout of the course, which is posted on the e-learning platform in the beginning of the semester and is also distributed and presented to the students during the 1st class meeting.</p>

## ATTACHED BIBLIOGRAPHY

- \_Aravantinos, Athanasios, 2007. Urban Planning (2nd revised edition). Athens: Simmetria Editions [in Greek].
- \_Andrikopoulou, Eleni, Giannakou, Athina, Kafkalas, Grigoris, Pitsiava-Latinopoulou, Magda, 2014. City and urban planning practices (2nd revised edition). Athens: Kritiki Editions [in Greek].
- \_Melissas, Dimitrios, 2015 (3rd ed.). New building regulations (Law 4067/2012) – Interpretation of each article. Athens: Sakkoulas Editions [in Greek].
- \_Moshaki, Evdokia Mara, Sofia, 2016 (5th ed.). New Building Regulations: The law 4067/2012 as updated and validated in present. Athens: Dedemadis Editions [in Greek].
- \_Siolas, A., Vassi, A., Vlastos, T., Kyriakidis, X., Siti, M., Bakogiannis, E., 2015. Methods, applications and tools of urban planning. [e-book]. Athens: Association of Greek Academic Libraries (Kallipos). Available at: <http://hdl.handle.net/11419/5409> [in Greek].