COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	TECHNOLOGY		
DEPARTMENT	ENVIRONMENTAL SCIENCES		
LEVEL OF STUDY	*Undergraduate*		
COURSE UNIT CODE	NEW **COURSE**	**SEMESTER**	5°
COURSE TITLE	ENVIRONMENT AND URBAN SPACE		

INDEPENDENT TEACHING ACTIVITIES in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits	**WEEKLY TEACHNG HOURS**	**CREDITS**
THEORETICAL BACKGROUND	5	5
LABORATORY PRACTICE	0	0
TOTAL	5	5

COURSE TYPE Background knowledge, Scientific expertise, General Knowledge, Skills Development	**Background knowledge**
PREREQUISITE COURSES:	None
LANGUAGE OF INSTRUCTION &EXAMINATION/ASSESSMENT:	GREEK
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES
COURSE WEBSITE (URL)	

(2) LEARNING OUTCOMES

Learning Outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail.
It is necessary to consult:

APPENDIX A

- *Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework.*
- *Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and*

APPENDIX B

- *Guidelines for writing Learning Outcomes*

The course examines issues and concepts related to the environment – human made and natural - and the built space focused on the scale of the city and the wider urban environment. In this context, it investigates the causes of degradation of the urban environment and the development prospects of the sustainable city, formulates principles, goals and policies for its upgrading and proposes possibilities for intervention in planning to reduce negative environmental impacts, lack of urban planning, urban sprawl , as well as the effects of renovation and intervention projects on a large and small scale.

The aim of the course is to achieve a holistic approach to urban planning and design with a focus on environment and space. In this context, main course axes are the introduction to issues and concepts concerning the anthropogenic and natural environment and its relationship with the structured space through the study of the structure of the city and taking into account the basic principles of urban planning and design. In addition, the role of green and water surfaces in shaping the urban environment is examined, among others. The development of the objectives and methodology of the course is sought both through lectures and group practice for six months.

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

Search for, analysis and synthesis of data and information by the use of appropriate technologies,	*Project planning and management*
Adapting to new situations	*Respect for diversity and multiculturalism*
Decision-making	*Environmental awareness*
Individual/Independent work	*Social, professional and ethical responsibility and sensitivity to gender issues*
Group/Team work	*Critical thinking*
Working in an international environment	*Development of free, creative and inductive thinking*
Working in an interdisciplinary environment	*……*
Introduction of innovative research	*(Other…….citizenship, spiritual freedom, social awareness, altruism etc.)*
	…….

- Search for, analysis and synthesis of data and information by the use of appropriate technologies,
- Individual/Independent work
- Group/Team work
- Environmental awareness
- Development of free, creative and inductive thinking

(3) COURSE CONTENT

1. Introduction: City and environment - public space and the city
2. Building a sustainable city: Historical background, international trends, context
3. Planning and design in the built environment: urban scale
4. Boundaries and structured environment: The relationship between building, urban environment and final user
5. Outdoor urban space and green space: Redesign and upgrade
6. Methodology of analysis I (study-data utilization, analysis of local characteristics-environment space & structured and non-structured environment, study of urban front)
7. Methodology of analysis II (study-data utilization, analysis of local characteristics-environment space & structured and non-structured environment, urban front study)
8. Intermediate group presentations
9. Green planning
10. Outdoor planning and design
11. Team- group project on public place I- Examples / case studies (major interventions)
12. Team-group project on public place II- Examples / case studies (small interventions at the neighborhood level)
13. Final group presentations

(4) TEACHING METHODS-ASSESSMENT

<table>
<tr><td>MODES OF DELIVERY
Face-to-face, in-class lecturing, distance teaching and distance learning etc.</td><td>▪ In-class lecturing
▪ Team discussion
▪ Distance teaching and distance learning</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY
Use of ICT in teaching, Laboratory Education, Communication with students</td><td>▪ Use of ICT in teaching (power-point, video).
▪ Communication with students (email, skype, etc..)
▪ E-class</td></tr>
<tr><td>COURSE DESIGN
Description of teaching techniques, practices and methods:
Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc.

The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.</td><td><table><tr><th>Activity/Method</th><th>Semester workload</th></tr><tr><td>Lectures</td><td>52</td></tr><tr><td>Workshop</td><td>35</td></tr><tr><td>Laboratory work</td><td></td></tr><tr><td>Theory study</td><td>38</td></tr><tr><td>Weekly individual evaluation reports for laboratory exercises</td><td></td></tr><tr><td>Course total (25 hours of workload per credit unit)</td><td>125</td></tr></table></td></tr>
<tr><td>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS
Detailed description of the evaluation procedures:

Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other……etc.

Specifically, defined evaluation criteria are stated, as well as if and where they are accessible by the students.</td><td>Students are evaluated in Greek or English. Students final Assessment is based on:
▪ Written examination based on short and open- ended questions: 50% of final evaluation (A)
▪ Individual and team essay- report examination and presentation: 50% of final evaluation (B)
▪ Final Assessment = 50% (A) + 50% (B)</td></tr>
</table>

(5) SUGGESTED BIBLIOGRAPHY:

-***Suggested bibliography***

Στάμος, Α.Α., Τζουβαδάκης Ι.Ε. (2009). Χάραξη Πολεοδομικού Οδικού Ιστού για Βελτιστοποίηση Βιοκλιματικού Σχεδιασμού Κτιρίων. Βόλος: 2ο Πανελλήνιο Συνέδριο Πολεοδομίας Χωροταξίας και Περιφερειακής Ανάπτυξης.

Stamos, A.A. (2007). ThanCad, a 2dimensional CAD. Vilnious: EuroPython conference.

Πιερή Σ., Μεθοδολογία αξιολόγησης ανθρακικού αποτύπώματος ξενοδοχειακών υποδομών περιοχής και στρατηγικές μείωσης CO2, διδακτορική διατριβή, επιβλέπων Ι. Τζουβαδάκης, 2016.

Κοσμόπουλος, Π. (επιμ.) (2019). Για ένα βιώσιμη οικιστικό περιβάλλον. UNIVERSITY STUDIO PRESS, Αθήνα.

Αραβαντινός, Αθ. (2007). Πολεοδομικός Σχεδιασμός. Για μα βιώσιμη ανάπτυξη του αστικού χώρου. Συμμετρία, Αθήνα.