MODULE OUTLINE

1. GENERAL INFORMATION

SCHOOL	SCHOOL OF APPLIED ARTS AND SUSTAINABLE DESIGN				
PROGRAM COURSE	ENVIRONMENTAL DESIGN				
LEVEL OF STUDY	POST GRADUATE PROGRAM				
MODULE CODE	PSP-53	YEAR OF STUDY 1 st			
MODULE TITLE	ENVIRONMENTAL URBAN DESIGN AND URBAN PLANNING				
WIODOLL TITLE	AND ARRANGEMENT OF OPEN SPACES				
INDEPENDENT TEACHING ACTIVITIES					
	se credits are awarded for separate components/parts of				
the course, e.g. in lectures, laboratory exercises, etc. If credits					CREDITS
are awarded for the entire course, give the weekly teaching			HOURS		
	hours and the total credits				
Weekly teaching hours 18-19 hours* 30 weeks		560		20 ECTS	
COURSE TYPE	Mandatory f				
Compulsory, Optional, Optional	Thandatory for Option 2				
mandatory					
PREREQUISITE MODULES:	There are no prerequisites for this unit				
LANGUAGE OF INSTRUCTION	GREEK				
AND EXAMS					
THE MODULE IS OFFERED TO	No (due to annual duration of the module)				
ERASMUS STUDENTS					
MODULE WEBSITE (URL)	https://www.eap.gr/education/postgraduate/annual/enviro				
	nmental-design/topics/#psp53				
	Each module has its own space in the Learning Management				
	System of EAP (http://study.eap.gr), with controlled access (use of				
	code) for students and teaching staff.				

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:

Upon successful completion of PSP53, students will have obtained the following:

- Understanding of how the man-made environment is constructed (architectural solutions and residential units)
- Understanding of how traditional buildings and settlements were formed, and the problems associated with the transition from traditional settlements to the current development phase
- Understanding of the connections between individual structures and the wider urban environment, and the environmental impact of construction activities

- Knowledge of the legal framework, protection agencies, and policies for the urban environment
- Understanding of the general and special categories of open public spaces and ability to propose environmentally oriented solutions
- Understanding of the concept of the landscape in the design of outdoor spaces, and the parameters for large-scale landscape design
- Knowledge of the properties of building materials vis à vis their ecological function, toxicity, and environmental footprint, and understanding of the concepts of re-use and recycling of building materials
- Ability to propose solutions for the conservation of water, the utilization of soft energy and the restoration of ecosystems as part of the function of an urban environment

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 respect for diversity and multiculturalism

technologies, Environmental awareness

Adapting to new situations Social, professional and ethical responsibility and

Decision-making sensitivity to gender issues

Individual/Independent work Critical thinking

Group/Team work Development of free, creative and inductive thinking

Working in an international environment

Working in an interdisciplinary environment (Other......citizenship, spiritual freedom, social

Introduction of innovative research awareness, altruism etc.)

Environmental awareness

Development of free, creative and inductive thinking

Search for, analysis and synthesis of data and

information by the use of appropriate technologies

Project planning and management

Decision-making

Adapting to new situations

3. MODULE CONTENT

The topics discussed in the present Thematic Unit are meant to supplement the knowledge students acquired in the previous two thematic units, and focus on environmental urban design and planning and the environmental design of open spaces and landscapes, aimed at sustainable management of urban spaces and the improvement of living conditions in urban environments. Environmental urban design and planning, together with the principles of environmental building design, is meant to approach the issue of architectural structuring and management of man-made spaces, for sustainable development and environmental protection.

4. TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY

Face-to-face, in-class lecturing, distance teaching and distance learning etc.

Five Distance counseling sessions ($O\Sigma\Sigma$) during the academic year on weekends.

USE OF INFORMATION AND COMMUNICATION TECHNOLOGY

Use of ICT in teaching, Laboratory Education, Communication with students In the meeting and/or in the homework's the following are used:

- remote meeting tools (cisco Webex, zoom),
- presentation software (powerpoint type),
- other softwares (e.g. SQLite, Diagram Drawing Tools)

In addition, students use office automation tools, web browsers as well as e-readers for digital books.

MODULE 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 selfdirected study are given following the principles of the ECTS.

Activity	Annual Workload		
5 OSS (x 4 hours)	20		
Preparation of	200		
Assignments (5			
assignments * 10 hours)			
Examination	3		
Individual study	337		
Total module workload (hours)	560		

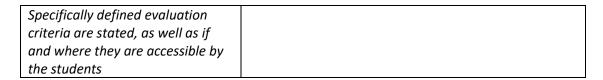
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS

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.

Students are assigned to submit the written assignments during the academic year. The average grade of the written assignments, weighted at 30%, is taken into consideration for the calculation of the final grade. The grade of the final or the resit exams shall be weighted at 70 % for the calculation of the final grade.

All the criteria are posted, both in each written assignment (in the LMS study.eap.gr), as well as in the general regulation of HOU at: https://www.eap.gr/education/study-regulations/



(5) SUGGESTED BIBLIOGRAPHY

- Suggested bibliography:

VOLUMES PUBLISHED BY THE HOU AND OFFERED TO STUDENTS

Τόμος Α΄: Περιβαλλοντική Τεχνολογία, ΕΑΠ, Πάτρα 2001. [Volume I: Environmental Technology, HOU, Patras 2001.]

Τόμος Β΄: Αρχές Οικολογικού Σχεδιασμού, ΕΑΠ, Πάτρα 2004. [Volume II: Principles of Ecological Planning, HOU, Patras 2004.]

PARALLEL TEXTS

- 1. Καυκαλάς Γ., Βιτοπούλου Α., Γεμενετζή Γ., Γιαννακού Α., Τασοπούλου Α., Βιώσιμες πόλεις: προσαρμογή και ανθεκτικότητα σε περιόδους κρίσης, Κάλλιπος 2015. [Kavkalas G., Vitopoulou A., Gemenetzi G., Giannakou A., Tasopoulou A., Sustainable cities: adaptation and resilience in times of crisis, Kallipos 2015.]
- 2. Αθανασίου Ε., Πόλη και Φύση. Θεωρήσεις της φύσης στον πολεοδομικό σχεδιασμό, Κάλλιπος 2015. [Athanasiou E., City and Nature. Considerations of nature in urban planning, Kallipos 2015.]
- 3. Μωραίτης Κ., Σχήματα τοπίου: ο σχεδιασμός του τοπίου ως ειδική περίπτωση αρχιτεκτονικής διδακτικής Ελληνική περίληψη, Κάλλιπος 2015. [Moraitis K., Landscape patterns: landscape planning as a special case of architectural teaching Greek summary, Kallipos 2015.]
- 4. Mostafavi, Mohsen, Gareth Doherty (eds.) Ecological Urbanism, Harvard University Graduate School of Design, Lars Müller Publishers, 2009 $\sigma\epsilon\lambda$. 10-53
- 5. Charles Waldheim, Landscape as Urbanism: A General Theory, Princeton University Press, 2016, $\sigma\epsilon\lambda$. 12-29, 158-175, 185-186 & 195
- 6. LEED 2009 for Neighborhood Development, Created by the Congress for the New Urbanism, Natural ResourcesDefense Council, and the U.S. Green Building Council (Updated July 2014
- 7. Williams, K., Gupta, R., Hopkins, D., Bramley, G., Payne, C., Gregg, M., ...Musslewhite, C. (2012). Suburban Neighbourhood Adaptation for a Changing Climate (SNACC) final report.

Accompanying Text (for THE PSP53)

Οδηγός Μελέτης για το βιβλίο Gehl, J.H Ζωή ανάμεσα στα κτήρια: Χρησιμοποιώντας το Δημόσιο Χώρο, Πανεπιστημιακές Εκδόσεις Θεσσαλίας 2013. [Study Guide for the book Gehl, J. Life Between Buildings: Using Public Space, Thessaly University Press 2013.]

BOOKS PURCHASED BY THE HOU AND OFFERED TO STUDENTS (ACCOMPANYING BOOKS)

Gehl, J.Η Ζωή ανάμεσα στα κτήρια: Χρησιμοποιώντας το Δημόσιο Χώρο, Πανεπιστημιακές Εκδόσεις Θεσσαλίας 2013. [Gehl, J. Life Between Buildings: Using Public Space, Thessaly University Press 2013.]

OTHER TEACHING MATERIAL

- 1. Rebuild by Design website: students will study, through inactive links, the following Projects:
- a) The BIG U http://www.rebuildbydesign.org/our-work/all-proposals/winning-projects/big-u,
- b) Living with the Bay http://www.rebuildbydesign.org/our-work/all-proposals/winning-projects/ny-living-with-the-bay,
- c) New Meadowlands http://www.rebuildbydesign.org/our-work/all-proposals/winning-projects/nj-meadowlands,
- d) Resist, Delay, Store Discharge http://www.rebuildbydesign.org/our-work/all-proposals/winning-projects/nj-hudson-river-project-resist-delay-store-discharge,
- e) Lifelines http://www.rebuildbydesign.org/our-work/all-proposals/winning-projects/hunts-point-lifelines
- & f) Living Breakwaters http://www.rebuildbydesign.org/our-work/all-proposals/winning-projects/ny-living-breakwaters.
- 2. Publications, indexes and maps from the website (via link)https://www.eea.europa.eu/
- 3. Video from Projects on the Senseable City Laboratory website https://senseable.mit.edu/