MODULE OUTLINE EPK50

1. GENERAL INFORMATION

SCHOOL	OF APPLIED ARTS AND SUSTAINABLE DESIGN				
PROGRAM COURSE	SUSTAINABLE INTERIOR DESIGN OF BUILDINGS (EPK)				
LEVEL OF STUDY	POSTGRADUATE				
MODULE CODE	EPK50	SEMESTER OF STUDY 1st			
MODULE TITLE	Introduction to sustainable design				
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		HOURS		CREDIS	
Weekly teaching hours 21-23 hours x 13 weeks		280-300		10 ECTS	
COURSE TYPE Compulsory, Optional, Optional mandatory	Compulsory				
PREREQUISITE MODULES:	None				
LANGUAGE OF INSTRUCTION AND EXAMS	Greek				
THE MODULE IS OFFERED TO ERASMUS STUDENTS	No (due to annual duration of the module)				
MODULE WEBSITE (URL)	https://www.eap.gr/en/viosimos-shediasmos/topics/#EPK50				
	Each module has its own space in the Learning Management System of EAP (https://courses.eap.gr/login/index.php), 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 the Thematic Unit, students will be able to:

- Understand the basic principles of sustainability and sustainable design
- Understand the role of buildings in the energy and environmental problem
- Know the basic international, European and national objectives, basic legislation and regulations, and sources for monitoring future developments
- Identify the parameters that dictate the quality of interior environments
- Understand the interaction of comfort parameters with the energy performance of buildings and the operation of installations.

Project planning and management

Respect for diversity and multiculturalism

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,

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

Working in an international environment

Development of free, creative and inductive thinking

Working in an interdisciplinary environment (Other......citizenship, spiritual freedom, social Introduction of innovative research awareness, altruism etc.)

- Search for, analysis and synthesis of data and information by the use of appropriate technologies
- Project planning and management
- Environmental awareness
- Adapting to new situations
- Decision-making
- Individual/Independent work
- Critical thinking
- Group/Team work
- Working in an interdisciplinary environment

3. MODULE CONTENT

Thematic Unit EPK50 aims to present the fundamental principles of sustainable design and introduce students to concepts related to interior built environment quality, the targets and basic parameters of Sustainable Development, the role of buildings and the built environment in the energy and environmental problem, the current legal framework, and the parameters that dictate the quality of interior environments.

4. TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY	Distance education with three Group Counseling Meetings				
Face-to-face, in-class lecturing, distance	(OSS) during the academic year on weekends.				
teaching and distance learning etc.	Personal communication and feedback, where necessary				
	(advisory role of SEP members)				
USE OF INFORMATION AND	We use :				
COMMUNICATION	Remote meetings tools (cisco webex),				
TECHNOLOGY	Presentation software (e.g. power point),				
Use of ICT in teaching, Laboratory					
Education, Communication with students					
	Additionally, the students use office automation tools, web				
	browsers and e-reader for digital books.				
MODULE DESIGN	MODULE DESIGN				
Description of teaching techniques, practices					
	Activity	Annual Workload			
and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of	Activity 3 OSS (x 4 hours)	Annual Workload			
and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art	3 OSS (x 4 hours)				
and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational	3 OSS (x 4 hours) 2 tutorial exercises (2 x 30	12			
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,	3 OSS (x 4 hours) 2 tutorial exercises (2 x 30 hours)	12 60			
and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational	3 OSS (x 4 hours) 2 tutorial exercises (2 x 30 hours) 1 semester assignment	12 60 55			
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	3 OSS (x 4 hours) 2 tutorial exercises (2 x 30 hours) 1 semester assignment Examination	12 60			
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,	3 OSS (x 4 hours) 2 tutorial exercises (2 x 30 hours) 1 semester assignment	12 60 55			

	Total module workload (hours)	280-300		
STUDENT PERFORMANCE	Completion of written assignments during the academic			
EVALUATION/ASSESSMENT	semester which constitute a 40 percent of each student's			
METHODS	grade, if a pass is obtained in the final or repetitive			
Detailed description of the evaluation procedures.	examination. Final exam grades constitute a 60 percent of the students' final course grade. For further information go to the			
Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, openended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, otheretc.	EAP Study Guide.			
Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students				

5. SUGGESTED BIBLIOGRAPHY

- 1. Sustainable development in the European Union, Monitoring report on progress towards the SDGs in an EU context (2022). Luxembourg: Publications Office of the European Union
- 2. Κατσαφάδος Π. & Μαυρομάτης Η. (2015). Εισαγωγή στη Φυσική της Ατμόσφαιρας και την Κλιματική Αλλαγή
- 3. Understanding and Responding to Climate Change (2008). The national academies
- 4. WMO_State of the Global Climate 2020
- 5. WMO the global climate 2001 2010
- 6. Energy, transport and environment statistics (2020). Luxembourg: Publications Office of the European Union
- 7. Stierstadt K. (2022). Our Climate and the Energy Problem. How our Energy Needs can be Covered in a Climate-Friendly Way.Springer Wiesbaden.
- 8. IEA (2019). Perspectives for the clean energy transition. The critical role of buildings
- 9. U.S. Deparment of energy (2020). Tips on Buying and Using. Renewable Energy at Home
- 10. ΚΑΠΕ. Ανανεώσιμες πηγές ενέργειας σε οικιστικά σύνολα
- 11. United Nations Environment Programme (2022). 2022 Global Status Report for Buildings and Construction: Towards a Zero-emission, Efficient and Resilient Buildings and Construction Sector. Nairobi
- 12. Eurostat (2013). Manual for statistics on energy consumption. Luxembourg: Publications Office of the European Union

- 13. ΤΕΕ_Κλίμα και εσωτερικό περιβάλλον. Βιοκλιματικός σχεδιασμός κτιρίων
- 14. ΤΕΕ_Θερμοφυσικές ιδιότητες δομικών υλικών
- 15. ΤΕΕ_Τεχνολογίες Ανανεώσιμων Πηγών Ενέργειας
- 16. ΤΕΕ_Τεχνολογίες Εξοικονόμησης Διαχείρισης Ενέργειας
- 17. Παπαμανώλης Ν. (2015). Δομική Φυσική και Αρχές Περιβαλλοντικού Σχεδιασμού Κτιρίων. Ελληνικά ακαδημαϊκά ηλεκτρονικά συγγράμματα και βοηθήματα
- 18. Τ.Ο.Τ.Ε.Ε. 20701-4/2010. Οδηγίες και έντυπα ενεργειακών επιθεωρήσεων κτιρίων, συστημάτων θέρμανσης και συστημάτων κλιματισμού