



COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Technology		
ACADEMIC UNIT	Department of Environmental Sciences		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	AE702	SEMESTER	7th
COURSE TITLE	LANDSCAPE ECOLOGY		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS		CREDITS
Teaching Hours	4		4
COURSE TYPE	Specialised general knowledge		
PREREQUISITE COURSES	None		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://eclass.uth.gr/courses/ENV_U_191		

(2) LEARNING OUTCOMES

Learning outcomes
The course provides a presentation and analysis of the different types of landscape (natural, forest, urban, rural and artificial), its structures, its spatial patterns, as well as the role of anthropogenic interventions. Upon successful completion of the course, students will have acquired the necessary knowledge, skills and competence, and will be able to: • Comprehend the operation of key concepts of landscape ecology, such as spatial heterogeneity of resources. • Understand the important elements of the landscape, the degree of fragmentation, etc. • Use software and models for the analysis of the effects of anthropogenic interventions on the landscape.
General Competences
• Search for, analysis and synthesis of data and information, with the use of the necessary technology • Decision-making • Teamwork • Production of free, creative, and inductive thinking

(3) SYLLABUS

• Landscape ecology, introductory concepts. • Landscape Elements. • Landscape Ecology and Scale: Relationship of Scale of Analysis and Ecological Questions. • Spatial patterns and landscape features. • Spatial pattern models and analysis software. • Landscape Management and conservation. • Landscape Restoration. • Case studies. Examples, application exercises in landscape restoration.

(4) TEACHING and LEARNING METHODS – EVALUATION

DELIVERY	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	• Use of PowerPoint slides • Communication with students via e-mail • Use of asynchronous distance learning (e-class)	
TEACHING METHODS	Activity	Semester workload
	Lectures	52
	Study and analysis of bibliography	36
	Essay writing	12
	Course total (25 hours workload per credit)	100
STUDENT PERFORMANCE EVALUATION	Students' performance is evaluated in the Greek language. The final grade is determined by: • A written exam (at the end of the semester) that contributes 100% to the final grade, applying one or more of the following evaluation methods: Multiple choice questions, short-answer questions, problem solving. Final Grade = 100% Exam Grade	

(5) ATTACHED BIBLIOGRAPHY

• Stamou, G.P. (2009) <i>Ecology. Introduction to the Ecology of Populations</i>, (1st Ed). Thessaloniki: ZITI Publications. (in Greek) • Stamou, G. (2016) <i>Structure and Dynamics of Biocommunities</i>, 1st Edition. Kallipos Repository - Open Academic Editions. www.kallipos.gr (in Greek)
