

COURSE DESCRIPTION

1. GENERAL

SCHOOL	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS		
DEPARTMENT	GEOGRAPHY		
LEVEL OF COURSE	Undergraduate		
COURSE CODE		ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	7 ⁰
COURSE TITLE	GEOINFORMATION IN ENVIRONMENTAL MANAGEMENT		
STRUCTURE OF TEACHING ACTIVITIES		TEACHING HOURS PER WEEK	NUMBER OF CREDITS ALLOCATED (ECTS)
Lectures and laboratory Exercises		3	5
TYPE OF COURSE	Optional		
PREREQUISITES	-		
LANGUAGE OF INSTRUCTION	GREEK		
COURSE OFFERED TO ERASMUS STUDENTS	YES, IN ENGLISH (IF REQUIRED)		
(URL)			

2. EXPECTED LEARNING OUTCOMES

Learning Outcomes

The course aims to offer a deeper knowledge and technical skills to the students on the use of a wide spectrum of geoinformation technologies and of their practical applications in managing the physical and manmade environment.

3. COURSE CONTENTS

Some of the key topics covered in the course include (list is indicative):

- Geoinformation in managing the natural and agricultural environment
- Geoinformation in managing the urban and manmade environment
- Geoinformation in managing the ocean and coastal environment
- Geoinformation in biotic and abiotic hazards management
- Geoinformation use in planetary science
- Geoinformation-based operational products in environmental management

4. TEACHING AND ASSESSMENT METHODS

TYPE OF LECTURES	<ul style="list-style-type: none"> - In class lectures - Practical training in ICT laboratory 	
ICT USE	ICT use, Internet use and e-class Use of specialized software (open source & commercial) in geospatial data handling	
TEACHING STRUCTURE	Activity	Hours per semester
	Lectures	13
	Laboratory practice	26
	Assignment	30
	Individual study	58
	TOTAL	127
ASSESSMENT METHODS	Assessment Language: Greek Assessment criteria are announced at the start of the semester.	

5. RECOMMENDED READING

ΤΗΛΕΠΙΣΚΟΠΗΣΗ ΠΕΡΙΒΑΛΛΟΝΤΟΣ - Μια προοπτική για τα φυσικά διαθέσιμα. John Jensen, ΕΚΔΟΣΕΙΣ ΕΜΠ, 2015
 Οδηγός του ArcGIS Pro, 3η Έκδοση. Shellito Bradley, Τσάτσαρης Ανδρέας (Επιστ. Επιμέλεια). ΕΚΔΟΣΕΙΣ ΤΖΙΟΛΑ, 2021