COURSE OUTLINE

(1) GENERAL

SCHOOL ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS ACADEMIC UNIT GEOGRAPHY			
ACADEMIC UNIT GEOGRAPHY	ENVIRONMENT, GEOGRAPHY AND APPLIED		
	ECONOMICS		
	GEOGRAPHY		
LEVEL OF STUDIES Undergraduate	Undergraduate		
COURSE CODE SEMESTER 7 th	SEMESTER 7 th		
APPLIED GEOINFORMATION IN ENVIRONMENT	ΑL		
COURSE TITLE MANAGEMENT	MANAGEMENT		
INDEPENDENT TEACHING ACTIVITIES WEEKLY			
if credits are awarded for separate components of the course, e.g. TEACHING CREDITS			
lectures, laboratory exercises, etc. If the credits are awarded for the whole			
of the course, give the weekly teaching hours and the total credits	g hours and the total credits		
Lectures and laboratory Exercises 3 5			
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).			
	d).		
COLIRSE TYPE Ontional	d).		
COURSE TYPE Optional	d).		
COURSE TYPE general background, special background, specialised general	d).		
general background,	d).		
general background, special background, specialised general	d).		
general background, special background, specialised general knowledge, skills development	d).		
general background, special background, specialised general knowledge, skills development	d).		
general background, special background, specialised general knowledge, skills development PREREQUISITE COURSES: -	a).		
general background, special background, specialised general knowledge, skills development PREREQUISITE COURSES: - LANGUAGE OF INSTRUCTION and GREEK	d).		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing 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.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment Production of new research ideas Project planning and management Respect for difference and multiculturalism Respect for the natural environment

Showing social, professional and ethical responsibility and

sensitivity to gender issues Criticism and self-criticism

Production of free, creative and inductive thinking

Others...

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

- Developing tools for automating data collection in the field
- Presentation of geospatial data using WebGIS
- Interpolation methods (going spatial from point)
- Introduction to drones
- Introduction to simulation process models
- Thermal remote sensing: from theory to practice
- EO data usage in creating thematic maps and change detection mapping

(3) SYLLABUS

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

- Developing tools for automating data collection in the field
- Presentation of geospatial data using WebGIS
- Interpolation methods (going spatial from point)
- Introduction to drones
- Introduction to simulation process models
- Thermal remote sensing: from theory to practice
- EO data usage in creating thematic maps and change detection mapping

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	- In class lectures		
Face-to-face, Distance learning, etc.	- Practical training in ICT laboratory		
USE OF INFORMATION AND	ICT use, Internet use and e-class		
Use of ICT in teaching, laboratory education, communication with students	Use of specialized software (open source & commercial) in geospatial data handling		
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography,	Lectures	13	
	Laboratory practice	26	
	Assignment	30	
tutorials, placements, clinical practice, art	Individual study	58	
workshop, interactive teaching, educational visits, project, essay writing, artistic creativity,	Course Total	127	
directed study according to the principles of the ECTS			
STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure			
Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, openended questions, problem solving, written work, essay/report, oral examination, public	Assessment Language: Greek		
presentation, laboratory work, clinical examination of patient, art interpretation, other	Assessment criteria are announced at the start of the semester.		
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.			

(5) ATTACHED BIBLIOGRAPHY

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