COURSE DISCRIPTION

1. GENERAL

DEPARTMENT LEVEL OF COURSE COURSE CODE	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS GEOGRAPHY Undergraduate ΓΦ2600 SEMESTER 7 th				
COURSE TITLE STRUCTURE OF TEACHII	APPLIED G	TEACHING HOURS PER WEEK		NUMBER OF CREDITS ALLOCATED (ECTS)	
Lec	tures and Labo	oratory Classes	3		5
TYPE OF COURSE	Optional				
PREREQUISITES	-				
COURSE OFFERED TO ERASMUS STUDENTS	GREEK YES (in English if required)				
(URL)	https://eclass.hua.gr/courses/GEO121/				

2. EXPECTED LEARNING OUTCOMES

Learning outcomes

Describe the objectives of the course as well as the expected learning outcomes

The main subject of this course is to introduce to the students the advanced spatial analysis with the use of GIS as well as to the GIS-based applications. Students are encouraged on project work in the field of applied GIS. The main target is the design, organization and implementation of real GIS projects using and enriching theoretical knowledge and technical skills of previous courses.

3. COURSE CONTENTS

GIS and advanced Spatial Analysis - GIS and Geographical problem solving - Dynamic / Spatiotemporal phenomena analysis & modeling - Spatial interpolation using GIS techniques - Integrated GIS - GIS customization - GIS applications - Advanced spatial data models. Advanced GIS laboratories.

4. TEACHING AND ASSESSMENT METHODS

TYPE OF LECTURES	In class lectures
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	Laboratory Lectures and Practice, projects			
ICT USE	ICT use, Internet use and e-class			
TEACHING STRUCTURE	Activity	Hours per semester		
	Lectures	13		
	Laboratory 26			
	Weekly assignments 26			
	Projects	37		
	Studying – personal work	25		
	TOTAL	127		
ASSESSMENT METHODS	Assessment Language: Greek Assessment Methods The final rate of the course is computed by three parts as follows: Projects (50%)			
	Final written exams (50%)			

5. RECOMMENDED READING

Chalkias, C., 2015. Geographical Analysis with the use of Geoinformatics. [ebook] Athens:Hellenic Academic Libraries Link. Available Online at: http://hdl.handle.net/11419/4546

Pappas V., 2011: GIS and planning, pub. University of Patra, Patra.

Koutsopoulos K., 2002: GIS and Spatial analysis, Papasotiriou pub, Athens.