COURSE DISCRIPTION

1. GENERAL

SCHOOL	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS		
DEPARTMENT	GEOGRAPHY		
LEVEL OF COURSE	Undergraduate		
COURSE CODE	ΓΦ0521	**SEMESTER**	7TH
COURSE TITLE	SPATIAL ANALYSIS APPLICATIONS IN REAL ESTATE MANAGEMENT		

STRUCTURE OF TEACHING ACTIVITIES	**TEACHING HOURS PER WEEK**	**NUMBER OF CREDITS ALLOCATED (ECTS)**
Lectures and Laboratory Classes	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

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

The main objective of this module is to introduce students to the use of new technologies and geoinformatics (such as Geographic Information Systems and geospatial data on the web) in property management in the private sector (such as Property Management Companies) and public sector (such as National Cadastre & Mapping Agency S.A.). An additional aim is the introduction to property valuation based on the European Valuation Standards as they are used in the real estate market in Greece. Moreover, a thorough presentation of the Geographically Weighted Regression (GWR) method to estimate property values based Hedonic Price Modelling theory takes place. It is a requirement for this module that students have a good knowledge of statistics, spatial analysis and GIS.

By the end of this module the student should:

- understand how new technologies and geoinformatics can help in better property management
- know what it is and what the National Cadastre & Mapping Agency S.A. does
- know what are the values of a property in the Greek real estate market
- know which property evaluation methods are used in the Greek real estate market
- be able to collect the appropriate data and apply methods of spatial analysis to estimate property values based on hedonic price modelling theory.
- has knowledge about contemporary spatial analysis methods, such as the

Geographically Weighted Regression, and be able to apply them to real estate data and to draw conclusions from the results of the analysis

3. COURSE CONTENTS

- Introduction to Property Management
- Geoinformatics and Real Estate
- Geographic Information Systems in Property Management
- Introduction to property valuation
- Property Valuation Standards and Methods
- Hedonic Price Models for Property Valuation
- Geographically Weighted Regression (GWR)
- The Greek real estate market and Property Management Companies
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4. TEACHING AND ASSESSMENT METHODS

TYPE OF LECTURES	In class lectures Laboratory Lectures and Practice
ICT USE	Internet use and e-class, use of software (R, Rstudio, QGIS, ArcGIS)
TEACHING STRUCTURE	
ASSESSMENT METHODS	Assessment Language: Greek Assessment Methods Essay at a form of a scientific paper (100%)

Activity	***Hours per semester***
Lectures	30
Laboratory	9
Project	30
Studying	60
TOTAL	***129***

5. RECOMMENDED READING

Suggested Reading:

Scientific Journals: