COURSE OUTLINE

(1) General

School:	Social Sciences		
Academic Unit:	Geography		
Level of studies	Undergraduate		
Course Code:	GEO 344	**Semester:**	F
Course Title:	Special Topics in Geographic Analysis		
Independent Teaching Activities	**Weekly Teaching Hours**	**Credits**	
Lecture		2	
Laboratory practice		2	
		Course total	5
Course Type:	Required Elective		
Prerequisite Courses:	None		
Language of Instruction and Examinations	Greek		
Is the course offered to Erasmus students:	No		
Course Website (Url):	https://geography.aegean.gr/pps/index_en.php?content=0&lesson=344		

(2) Learning Outcomes

Learning Outcomes

- Ability to comprehend basic principles and methods of location analysis as they are specifically applied to the analysis of geographical data
- Ability to select appropriate methods of analysis for the examination of geographical variables
- Ability to interpret the results of location analysis
- Ability to use specialized spatial analysis software and programming language

General Competences

1. Search for, analysis and synthesis of data and information, with the use of the necessary technology
2. Adapting to new situations
3. Decision-making
4. Working independently
5. Production of new research ideas
6. Respect for difference and multiculturalism
7. Respect for the natural environment
8. Showing social, professional and ethical responsibility and sensitivity to gender issues
9. Criticism and self-criticism

10. Production of free, creative and inductive thinking

(3) Syllabus

Introduction to the basic principles oflocation analysis (both euclidian and network space).

Emphasis is given to the analysis of location value and location problems, the analysis of measurementsor relative distance and cost functions. Use of specialized software for understanding basic methods of location analysis and their practical application for the analysis of spatial data from physical and human geography.

(4) Teaching and Learning Methods - Evaluation

Delivery:	Physical presense	
Use of Information and Communication Technology:	Use of R statistical Language along with the use of QGIS software	
Teaching Methods:	**Activity**	**Semester workload**
Lecture	26	
Laboratory practice	26	
Fieldwork	3	
Project	42	
Non-supervised study	26	
Performance evaluation/Exams	6	
	Course total<	129
Student Performance Evaluation	Writen exams along with the 2 assignments.	

(5) Attached Bibliography

1. Κουτσόπουλος, Κ. (2009): Πραγματεία Ανάλυσης Χώρου: Θεωρία και Τεχνικές, Τόμος Α, Εκδόσεις Παπασωτηρίου, Αθήνα
2. Φώτης, Κ. (2009): Ποσοτική Χωρική Ανάλυση, Εκδόσεις Γκοβόστης, Αθήνα
4. O'Sullivan D. and Unwin, D.J. (2003): Geographic Information Analysis, John Wiley & Sons, New York
6. Haining, R. (2003): Spatial Data Analysis: Theory and Practice, Cambridge University Press, Cambridge, UK
8. Bailey, T.C. and Gatrell, A.C. (1995): Interactive Spatial Data Analysis, Prentice Hall, Upper Saddle River, New Jersey