

COURSE OUTLINE

(1) General

School:	Social Sciences		
Academic Unit:	Geography		
Level of studies	Undergraduate		
Course Code:	GEO 484	Semester:	G
Course Title:	Geoinformatics		
Independent Teaching Activities	Weekly Teaching Hours	Credits	
			Course total
			5
Course Type:	Optional		
Prerequisite Courses:	None		
Language of Instruction and Examinations	English		
Is the course offered to Erasmus students:	Yes		
Course Website (Url):	https://geography.aegean.gr/pps/index_en.php?content=0&lesson=484		

(2) Learning Outcomes

Learning Outcomes

General Competences

1. Search for, analysis and synthesis of data and information, with the use of the necessary technology
2. Working in an international environment
3. Showing social, professional and ethical responsibility and sensitivity to gender issues
4. Production of free, creative and inductive thinking

(3) Syllabus

Introduction to the basic concepts of geoinformatics and its methods for the study of spatial problems. Through examples and an overview of methods, students gain a good understanding of the wide range of applications and techniques used in geographic data analysis, cartography, geographic database management, remote sensing, and the use of GIS to study natural disasters.

(4) Teaching and Learning Methods - Evaluation

Delivery:	Lectures with physical presence.	
Use of Information and Communication Technology:	Basic demonstration of GIS tools and related geographic data analysis software.	
Teaching Methods:	Activity	Semester workload
Lecture		36
Non-supervised study		36
Project		40

Course total<

112

Student Performance Evaluation

Final exams and individual project.

(5) Attached Bibliography

- O'Sullivan D. and Unwin, D.J. (2003): Geographic Information Analysis, John Wiley & Sons, New York
- Haining, R. (2003): Spatial Data Analysis: Theory and Practice, Cambridge University Press, Cambridge, UK
- Bailey, T.C. and Gatrell, A.C. (1995): Interactive Spatial Data Analysis, Prentice Hall, Upper Saddle River, New Jersey