COURSE DISCRIPTION

1. GENERAL

SCHOOL	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS
DEPARTMENT	GEOGRAPHY
LEVEL OF COURSE	Undergraduate
COURSE CODE	**SEMESTER** 2d
COURSE TITLE	GNSS Technology and Navigation

STRUCTURE OF TEACHING ACTIVITIES	TEACHING HOURS PER WEEK	NUMBER OF CREDITS ALLOCATED (ECTS)
Lectures and Laboratory Classes	3	5

TYPE OF COURSE	Compulsory
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 purpose of the course is to acquire knowledge about the detection and navigation systems, the instruments used for this purpose and applications with emphasis on natural disasters. Technical navigation issues and applications. The main objective is the students' theoretical learning about positioning and navigation systems with reports from applications in Greece.

3. COURSE CONTENTS

Technical navigation issues and applications. In particular, the course includes the following fields: Geodetic Space Techniques - GPS Satellite System - GPS Observations - Geodetic Measurement Engineering Techniques - Reference Systems - Geodesic Networks - EPOS and HEPOS - Description GPS, GLONASS and GALLILEO - Applications in the Greek Space - Mapping with the use of GPS-Modern Trends receivers

4. TEACHING AND ASSESSMENT METHODS

TYPE OF LECTURES	In class lectures

	Laboratory Lectures and Practice
ICT USE	ICT use, Internet use

TEACHING STRUCTURE	Activity	Hours per semester
	Lectures	26
	Laboratory	13
	Weekly assignments	13
	Project	15
	Studying	60
	TOTAL	*127*

ASSESSMENT METHODS	Assessment Language: Greek Assessment Methods The final rate of the course is computed by two parts as follows: Final written exams

5. RECOMMENDED READING