

COURSE DESCRIPTION

1. GENERAL

SCHOOL	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS		
DEPARTMENT	GEOGRAPHY		
LEVEL OF COURSE	Undergraduate		
COURSE CODE	ΓΕ0801	SEMESTER	4 th semester
COURSE TITLE	PHOTOINTERPRETATION -- REMOTE SENSING		
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 aim of the course is the acquisition of the fundamentals of Remote Sensing theory as well as the basic steps of satellite images processing. And interpretation of different earth observation systems.

3. COURSE CONTENTS

Introduction, the electromagnetic spectrum, radiation and earth surface, spectral signatures, characteristics of the digital images, earth observation satellite systems, spatial, spectral and radiometric enhancement of the images, principal component analysis, vegetation indices, image classification, radar scenes in remote sensing, the use of the thermal radiance, photo-interpretation

4. TEACHING AND ASSESSMENT METHODS

TYPE OF LECTURES	Laboratory Lectures and Practice
ICT USE	ICT use, Internet use and image processing open and

	commercial s/w.		
TEACHING STRUCTURE	Activity	Hours per semester	
	Lectures	33	
	Laboratory	8	
	Weekly assignments	8	
	Project	20	
	Studying	60	
	TOTAL	129	
ASSESSMENT METHODS	<p>Assessment Language: Greek</p> <p>Assessment Methods</p> <p>Oral exams for the theory and computer hands on exercise for the basic processing steps and interpretation. The final grade comes up by the average of the above examinations. In any case in both exams the grade should be over the pass.</p>		

5. RECOMMENDED READING

Parcharidis Issaak (2015) Introduction to Space based earth Observation (Kalippos)