Course	title	:	Earth	observation
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Test, seminar paper Homework Self-study (library or home)

Course Basic Information					
Academic Unit:	Faculty of Civil	Faculty of Civil Engineering			
Course title:	Earth observat	ion			
Level:	Master	Master			
Course Status:	Mandatory				
Year of Study:	Year 2; Semest	Year 2; Semester 3			
Number of Classes per Week:	2+2				
ECTS Credits:	6 ECTS	6 ECTS			
Time /Location:	According to t	According to the timetable			
Teacher:	Assoc.Prof.Dr.	Assoc.Prof.Dr. Bashkim Idrizi			
Contact Details:	bashkim.idrizi(@uni-pr.edu			
	+383 45 34109				
Course Description:		This is an advanced course of Earth observation through			
		remote sensing and aims to teach sophisticated methods and techniques in gathering information, processing and			
			-		
			research in spatial		
	planning, environmental monitoring and management.				
	of natural resources. In this course, special importance				
	will be given to image processing, image analysis, image classification, RS and GIS integration and RS application				
		in various fields.			
Course Goals:		Students will gain theoretical knowledge and practical			
		skills on digital image processing, analysis, and applying			
	-	these techniques in various remote sensing applications.			
Expected Learning Outcomes:	After completing this course students should be able :				
Expected Learning Outcomes.	- Remote Sensing				
		 Remote sensing Image Processing Image Analysis 			
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	-	 Image Classification Digital Change Detection 			
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	- Remote Sensing Applications				
Student Workload (should be	in compliance w	vith student's Lear	ning Outcomes)		
Activity	Hours	Day/ Week	Total		
Lectures	2	15	30		
Theory/ Lab Work/Exercises	1	15	15		
Practical Work	1	15	15		
Consultations with the teacher Field Work	1	7	7		
Test seminar naner	5	Δ	20		

Preparation for final exam		8	2	16	
Assessment time (test, quiz, final		3	2	6	
exam)		Ū	-	C C	
Projects, presentations, etc.		2	2	4	
Total			_	150	
Teaching Methods:		- Lecture			
C		- Discussion du	ırina lectures		
		- Exercises	y		
		- Work in grou	n		
Assessment Methods:		-		than EOU	
Assessment wiethods:		-	r assessment: more		
			ectures and positive	e evaluation of	
			by the lecturer.		
		First valuation:			
		Second Valuati			
		Homework: 10			
		Attendance: 10%			
		Final Exam: 30	%		
		Total: 100%			
Primary Literature:		1.Jensen, J.R., 2015. Introductory Digital Image			
		Processing: A Remote Sensing Perspective, 4rd edition,			
		Prentice Hall,			
		2.Richards J.A., Jia X. Remote Seinsing digjital imag			
		analyses. 2005.			
		3.Nikolli P., Kabashi I. Perpunimi i imazheve satelitore.			
		2018.			
Additional Literature:	Additional Literature:		Gonzalez C. R, Woods E. R: Digital Image Processing,		
		2007 CRCSI (2017-2020) Earth Observation: Data,			
		Processing and Applications. Volume 1,2,3			
Designed teaching plan		0.00	pp	- , ,-	
Week	Title of t	he Lecture			
Week 1:			imentals of remote s	ensing	
Week 2:	Sources of remotely sensed data				
Week 3:	Base characteristics of data, Images, pixels, size and scale				
Week 4:	Characte	ristics of satellites, the way of describe, Their projection on			
			quadratic covers.		
Week 5:	Sensors and satellites.				
Week 6:	Mathematical models of correction and referencing of satellite		encing of satellite		
	images.				
Week 7:	Interpretation and analysis of satellite images TD.				
Week 8:	First evaluation				
	The qualifying first colloquium				
Week 9:	Processing of satellite images				
Week 10:	Analysis of images				
Week 11:	Classification of images				
Week 12:	-	etection of chan	ges		
Week 13:	Use of Remote Sensing.				

Week 14:	The applications of satellite image in the topography, cartography, urban planning, land use.	
Week 15:	Second evaluation	
	The qualifying second colloquium	

Academic Policies and Code of Conduct

We start and finish class on time.

Tools used during class must be cleaned and stored away at the end of class.

Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.

Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.

Note | If a student has more than 3 class assignements evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.