Course title :

Course Basic Information				
Academic Unit:	Faculty of Civil Engineering			
Course title:	Basics of Engineering Geodesy			
Level:	Bachelor			
Course Status:	Mandatory			
Year of Study:	Year 2, Semester 4			
Number of Classes per Week:	2+2			
ECTS Credits:	6			
Time /Location:	According to the Timetable			
Teacher:	Prof.Ass.Dr. Ismail Kabashi			
Contact Details:	Ismail.kabashi@uni-pr.edu			
	+ 377 44 325 819			
Course Description:	Entering in engineering geodesy, definitions and its role, geodetic works in preparing infrastructure projects. The role of geodesy on the construction of buildings, stake out elements, Methods of stake out process. Horizontal and vertical stake out. Methods: orthogonal, polar and accuracy analysis, GPS-RTK method. Road elements in vertical perspective. Circular curves, clotoida, cubic parabola, lemniscata, etc. Height stake out, volume calculation etc.			
Course Goals:	The aim of this topic is to teach students making difference between "survey" and "stake out". During this course the students will get the basic knowledge about the role and implementation of geodesy in infrastructure objects.			
Expected Learning Outcomes:	 After the finish of this course the students will be able to: Make the difference between "survey" and "stake out" Staking out different geodetic elements, Calculating volumes during the implementation of different buildings or roads etc. 			

Student Workload (should be in compliance with student's Learning Outcomes)					
Activity	Hours	Day/ Week	Total		
Lectures	2	15	30		
Theory/ Lab Work/Exercises	2	15	30		
Practical Work					
Study for intermediate test	1	13	13		
Consultations with the teacher	1	15	15		
Field Work					
Test, seminar paper	4	2	8		
Homework	1	13	13		
Self-study (library or home)	1	13	13		
Preparation for final exam	1	15	15		

Assessment time (test, quiz, final						
Projects, presentations, etc.		1	15	15		
Total				152		
Teaching Methods:		Lectures,				
		Discussions				
		Exercises				
		Team Work				
Assessment Methods:		Participation on the lectures and exercises: 5%				
		First valuation: 10%				
		Second Valuation:10%				
		Final Exam: 60%				
		Total: 100%				
Drimany Literature		Kabashi L. Cia	odozia Invhiniorika I	Disponcă Fakultati i		
Primary Literature:	Primary Literature:		Kabashi, I.: Gjeodezia Inxhinierike I. Dispence, Fakulteti i Nërtimtarisë dhe Arkitekturës-Universiteti i Prishtinës			
		Prishtinë, 2008				
		Kolonja, Y., Hamzai E.: Gjeodezia Inxhinierike Libri 1, 2		nxhinierike Libri 1, 2		
		dhe 3, UPT-FIN, Tiranë				
Additional Literature:		1. Uren, J., Price, W. F.: Surveying for Engineers.				
		2. Kahmen. H.	: Vemessungskunde	20. Auflage, de		
		Gruyter Lehrbu	uch, Berlin New York	x, 2006		
		3. Müller, G: H	andbuch Ingenieurg	eodäsie 2., völlig neu		
		bearb. und erw. Aufl., VEB Verlag für Bauwesen, Berlin,				
		4. Hennecke. F	Müller. G Werne	r. H.: Handbuch		
Designed teaching plan		,	, , . ,	,		
Week	Title of the Lecture					
Week 1:	Geodeti	eodetic works during the infrastructure objects projecting				
Week 2:	Staking out elements					
Week 3:	Basic elements for horizontal and vertical stake out					
Week 4:	Methods for point stake out: orthogonal and polar stake out.					
	Accuracy	Accuracy analysis				
Week 5:	Other stake out methods e.g. GPS-RTK					
Week 6:	Stake out of lines and different methods when the points are not					
	obvious.					
Week 7:	Circular curves. Its elements					
Week 8:	Curves containg two or three parts.					
Week 9:	1st valua	ition -				
Week 10:	Clotoide	s. Its role and its	elements.			
Week 11:	Stake out of elements of the clotoides					
Week 12:	Clotoides as S-curves					
Week 13:	Road elements					
Week 14:	Stake out of heights					
Week 15:	Second Valuation					

Academic Policies and Code of Conduct

- Regular attendance of the lectures and excersises
- Mobile phones are not allewed

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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 %.