Course title :

Academic Unit:	Faculty of Civil	Engineering			
Course title:	Land surveying	5			
Level:	Bachelor				
Course Status:	Mandatory				
Year of Study:	Year 2, Semest	ter 3			
Number of Classes per Week:	2+2				
ECTS Credits:	6				
Time /Location:	According to t	he Timetable			
Teacher:	Prof.Ass.Dr. Isr	nail Kabashi			
Contact Details:	Ismail.kabashi	@uni-pr.edu			
	+ 377 44 325 8	19			
Course Description:	The course sta	rts with basic princi	oles of land surveying,		
	coordinate sy	stems, cartograph	ic projection Gauss-		
	Kruger, basic	aefinitions of GPS	surveying, polygonal pling networks to end		
	with the refere	encina heiaht surface	end end end end end		
Course Goals:	To achieve teo	retical and practical	knowledge about the		
	classic and mo	ders surveying tech	niques.		
Expected Learning Outcomes:	After finishing	this course the stud	ent will be able to:		
	- Develop bas	ac knowledge in som	ing basic problems in		
	- Knowledge	about basic measuri	ng techniques		
Student Workload (should be ir	Student Workload (should be in compliance with student's Learning Outcomes)				
		nth student's Lear	ning Outcomes)		
Activity	Hours	Day/ Week	ning Outcomes) Total		
Activity Lectures	Hours 2	Day/ Week 15	ning Outcomes) Total 30		
Activity Lectures Theory/ Lab Work/Exercises	Hours 2 2	Day/ Week 15 15	ning Outcomes) Total 30 30		
Activity Lectures Theory/ Lab Work/Exercises Practical Work	Hours 2 2 1	Day/ Week 15 15 15	ning Outcomes) Total 30 30 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test	Hours 2 1 1	Day/ Week 15 15 15 15 15 15	ning Outcomes) Total 30 30 15 13 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher	Hours 2 2 1 1 1 1 1	Day/ Week 15 15 15 15 15 15 15 15 15 15 15 15 13 15	ning Outcomes) Total 30 30 15 13 15 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test seminar paper	Hours 2 2 1 1 1 1 4	Day/ Week 15 15 15 15 15 13 15	ning Outcomes) Total 30 30 15 13 15 		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework	Hours 2 2 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 15 13 2 13	ning Outcomes) Total 30 30 15 13 15 8 8 13		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home)	Hours 2 2 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 15 13 15 13 13 13 13 13 13 13 13 13	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 13		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam	Hours 2 2 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 15 13 15 13 15 13 15 13 15	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 13 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final	Hours 2 2 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 15 13 15 15 15 15 13 15	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 13 15 13 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam)	Hours 2 2 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 2 13 13 15	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 13 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations, etc.	Hours 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 13 13 13 13 13 13	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 13 15 13 13 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations, etc. Total	Hours 2 2 1 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 13 13 13 13	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 15 13 15 13 15 13 15 13 15 13 15 13 15 13 13 15 15 13 15 15 15 15 15 15 15 15 15 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations, etc. Total	Hours 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 13 13 13 13 13	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 15 15 15 15 15 15 15 15 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations, etc. Total Teaching Methods:	Hours 2 2 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Day/ Week 15 15 15 13 13 13 13 13	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 15 15 15 15 15 15 15 15 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations, etc. Total Teaching Methods:	Hours 2 2 1 1 1 1 1 1 1 1 1 1 Lectures, Discussions	Day/ Week 15 15 15 13 13 13 13 13 13	ning Outcomes) Total 30 30 15 13 13 15 8 13 13 15 15 13 15 15 15 15 15 15 15 15 15 15 15 15 15		
Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations, etc. Total Teaching Methods:	Hours 2 2 1 1 1 1 1 1 1 1 1 1 Lectures, Discussions Exercises	Day/ Week 15 15 15 13 13 13 13 15	ning Outcomes) Total 30 30 15 13 15 8 13 13 13 15 15 13 15 15 15 15 15 15 15 15 15 15 15 15 15		

Assessment Methods:	First Valuation: 15%		
	Second Valuation: 15%		
	Homework: 10%		
	Participation on the lectures: 5%		
	Final Exam: 55%		
	Total: 100%		
Primary Literature:	1) Kahmen, H. Vermessungskunde, Berlin, 2005		
·······	2) Bencic. D. Instrumentet per matie dhe sistemet ne		
	gieodezi dhe gieoinformatike.		
Additional Literature:	1. Jekeli. Ch.: Geodetic Reference Systems in Geodesy.		
	Ohio State University, 2006.		
Designed teaching plan			
Week	Title of the Lecture		
Week 1:	Basic definitions and principles of land surveying		
Week 2:	Geodetic network for land surveying and its stabilization and the		
	measuring units.		
Week 3:	Coordinative systems. Gauss-Kruger projection		
Week 4:	Basic definitions of triangulation. The coordinate calculation hase		
Week 5:	Basic definitions of GPS measurements. surveying methods and the		
	connection to earth systems.		
Week 6:	Polygonal networks		
Week 7:	Developing polygonal networks in the field		
Week 8:	Measurement of angels and uncertainty of angel measurements.		
	The measurement accuracy and the tolerance in angel		
	measurements.		
Week 9:	Linear measurements in polygonal networks		
Week 10:	Correction of linear measurements and reduction of the lines in		
	ellipsoid surface.		
Week 11:	Calculation of coordinates for polygonal points and calculation of		
	coordinates for the points in the "Linear" network		
Week 12:	Leveling. General concepts, leveling methods. General leveling and		
	stabilization of leveling points-"repers"		
Week 13:	Calculations in the leveling networks		
Week 14:	Heights system and vertical datum. Orthometric heights, above		
	sea heights, and geopotencial heights. Relations between		
	different heights.		
Week 15:	Surveying methods. Polar method, RTK surveying.		

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 %.