Course Basic Information				
Academic Unit:	Faculty of Civil Eng	ineering		
Course title:	Surveying techniques in Coodesy			
Level:	Pachalan			
	Elective			
Year of Study:	Year 2, Semester 3			
Number of Classes per Week:	2+1			
ECTS Credits:	3			
Time /Location:	According to the Timetable			
Teacher:	Prof. Ass. Dr. Ymer Kuka			
Contact Details:	e-mail: <u>ymer.kuka@uni-pr.edu</u> <u>www.fn.uni-pr.edu</u>			
Course Description:	Within this course w	ill be developed basic k	nowledge about the	
·	shane of the earth	nractical geodesy and t	the goal of geodetic	
		will be developed by		
	surveying. Initially	will be developed b	asic knowledge of	
	measurement metho	ds and haw to calculat	e the coordinates of	
	unknown points, coo	ordinate systems in geo	odesy, main tasks of	
	geodesy, the develop	ment of polygonal netw	orks, the application	
	of geodesy in cons	struction facilities, stal	ke out of engineer	
	buildings The sour	co and with the day	valanment of basis	
	buildings. The cours	se enus with the de	velopment of basic	
	knowledge on GPS a	nd its application in ge	eodetic surveying for	
	different purposes.			
Course Goals:	To achieve theoretic	al and practical knowl	edge in the field of	
	practical geodesy and	l field surveying.		
Expected Learning Outcomes:	After completion of this course, students should be able to:			
	Develop basis knowledge on selving problems related			
	- Develop basi	ic knowledge on solvi	ig problems related	
	with geodesy			
	 To be familia 	r with main methods o	of geodetic surveying	
	and its applic	ation in civil engineering	5.	
	- To be familia	r with surveying geodeti	c equipment's	
Student Workload (should be in compliance with student's Learnign Outcomes)				
Activity	Hours	Dav/ Week	Total	
Lectures	2	15	30	
Theory/ Lab Work/Exercises	2	15	30	
Practical Work	1	10	10	
Consultations with the teacher	5	1	5	
Field Work	1	5	5	
Test, seminar paper	1	15	15	
Homework	1	15	15	
Self-study (library or home)	1	10	10	
Preparation for final exam	1	15	15	
Assessment time (test, quiz, final				
exam)				
Projects, presentations, etc.	1	15	15	
Total			150	

Course title: Surveying techniques in geodesy

Teaching Methods:		-Lecture		
		-Discussion during lectures		
		-Exercises		
		-Work in group		
Assessment Methods:		In evaluation, the percentage of the attendance of each partial evaluation in the final evaluation must be determined. One of the ways of evaluation would be: First Evaluation: 15% Second Evaluation: 15% Homework or other engagement: 10% Attendance 5% Final Exam 55% Total 100%		
Primary Literature:		1) Kahmen, H. Vermessungskunde, Berlin, 2005		
		2) Bencic, D. Instrumentet per matje dhe sistemet në gjeodezi		
Additional Literature		dne gjeoinformatik		
Designed teaching plan		1) Nela, K. Gjeodezia e pergjithshme, Prishtine, 2000		
Week	Title of the Lecture			
Week 1:	Base definitions and main principles of land surveying			
Week 2:	Establishment of geodetic networks for land surveying purposes. surveying			
	methods and measurement units			
Week 3:	Coordinate system of mapping. Gauss-Kryger projection			
Week 4:	Main definitions of triangulation			
Week 5:	Main definitions of GPS surveying methods.			
Week 6:	Polygonometric geodetic networks connected with two sides with known			
	coordinates, closed and sightless			
Week 7:	Connection with inaccessible point. Site visit and establishment of point			
	monuments			
Week 8:	Angle measurement in polygonometry and reasons of errors during			
	measurements. Setting accuracy in advance and max error allowed			
Week 9:	Linear measurement in poligonometry. Distance measurements by theodolite			
Week 10:	Application of surveying in engineer buildings			
Week 11:	Stake ou	Stake out of engineering buildings		
Week 12:	Levelling. Main principles of calculations in levelling.			
Week 13:	Causes of insecurity to levelling. The levelling network connection to point of			
	a higher order. Calculation of the levelling network.			
Week 14:	Deformation analysis of engineering buildings			
Week 15:	Modern	dern methods of surveying in civil engineering and architecture. GPS, laser		
	scanning, photogrammetry			

Academic Policies and Code of Conduct

- 1. Regular attendance of lectures and exercises
- 2. Being quiet during the sessions
- 3. Shutting down mobile phones
- 4. Being on time

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