Course Basic Information			
Academic Unit:	Faculty of Civil	Engineering	
Course title:	Engineering Survey (mines included)		
Level:	Master		
Course Status:	Mandatory		
Year of Study:	Year 2, Semester 3		
Number of Classes per Week:	2+2		
ECTS Credits:	6 ECTS		
Time /Location:	According to the Timetable		
Teacher:	Prof. Dr. Ismail Kabashi		
Contact Details:	Email: ismail.kabashi@uni-pr.edu		
Course Description:	Course Engineering Survey (mines including) is one of the most important courses of Geodesy. It offers knowledge about: implementation and quality control of geodetic networks, determining surface elements of referent systems, movements of referent geodetic networks, it gives the basis for underground measurements and it includes all the tasks for infrastructure object supervising.		
Course Goals:	The aim of this course is to inform students with all responsibilities and tasks of engineering geodesy.		
Expected Learning Outcomes:	 After completing the course, students should be familiar with: Surveying instruments (theodolites, levels, total stations): principles, testing and adjusting. Methods of precise distance and angular measurements Horizontal geodetic networks: design, observation and computation Height determination: levelling, trigonometric and barometric methods Precise setting-out and alignment methods and instruments Mine surveying: connecting surveys and orientation with gyro theodolite. 		
Student Workload (chould be in	compliancow	ith student's lear	ning Outcomes)
Activity	Hours	Day/Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	<u> </u>	1.5	
Practical Work			
Consultations with the teacher	2	15	30
Field Work			
Test, seminar paper	3	4	12
Homework	1	10	10

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Self-study (library or home)		2	15	30
Preparation for final exam		8	2	16
Assessment time (test, quiz, final		3	2	6
exam)				
Projects, presentations, etc.		8	2	16
Total				150
Teaching Methods:		- Lecture		
_		- Discussion du	uring lectures	
		- Exercises	5	
		- Work in arou	n	
Assessment Methods:		In evaluation, the percentage of the attendance of each		
		nartial evaluation in the final evaluation must be		
		determined O	ne of the ways of ev	valuation would be:
		Eirst valuation	110 01 110 ways 01 ev	
		First valuation	2370	
		Second Valuati	IUII. 23%	
		Attendences 10	170 D0/	
		Attendance: 10	J% 0/	
		Total: 100%	70	
		10tal. 100%		
Primary Literature:		1) Koloni	a V. Hamzai I. Gieo	dezia invhinierike
		Libri 2 dhe 3 Tiranë		
		2) Kavana	agh B.F. (2010) Surve	eving with
		Construction A	pplications.	
Additional Literature:		1) Schofield W., Breach M. (2007) Engineering		
		Surveying.	Elsevier Ltd	
		2) J. Apolinar Munoz Rodriguez (2012) Laser scanner		
		technology	1	
Designed teaching plan	Title of t	h o 1 o otumo		
Week		ne Lecture	instruments during	the engineering
WEEK 1.	survey	recision geodetic		, the engineering
Week 2:	Engineering Geodesy in Construction			
Week 3:	Geodetic survey during the construction of bridges			
Week 4:	Geodetic survey during the construction of tunnels			
Week 5:	Geodetic Monitoring or Geo-Monitoring and Online Monitoring,			
	Geodetic	: Monitoring Sys	tems	
Week 6:	Geodetic Monitoring Methods			
Week 7:	Geotechnical monitoring methods			
Week 8:	Laser scanning technology			
Week 9:	Lidar 3D) scanning		
Week 10:	LIDAR 3D) application in r	nonitoring	
Week 11:	Analysis	of deformations	and survey process	ing models, analysis
14/aak 12:	or result	uits and accuracy		
VVEEK 12:	base	surveys in mine	es, overnead and gro	undwater network of
Week 12.	Dase and	ineignts	arboad and undergr	ound notworks
VVEER 13.	nrecise	vientation with	errieau ariu uriuergr gyroscone	ound networks,
Week 14.	Practical	work - Monitor	ing high huildings (or hridges
WEELLIT.	i i actical		ing ingi bunungs (JI DITUGUS

Week 15:	Practical work – Monitoring tunnels or mines

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 assignments evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.