

Course title :

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	Field surveying with geodetic equipment
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:	Introduction to surveying equipments. Surveying in geodesy and surveying errors. Basic optical elements used in equipments. The main parts of equipments. Impact of “cross line” in measurements. Main characteristics of spherical and cylindrical level. Introduction to theodolites and levels. Main principles of DEM. Application of total stations. Introduction in GPS application in surveying. Methods for testing and controlling of surveying equipments.
Course Goals:	In this course are included subjects related to surveying equipments. Horizontal and vertical angle measurements, determination of height differences, distances.
Expected Learning Outcomes:	After finishing this course the student should be able to: <ul style="list-style-type: none"> - Understand principles of surveying equipments - Understand geodetic referent networks - Plan and carry out projects for geodetic measurement in the field

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	1	15	15
Study for intermediate test	1	13	13
Consultations with the teacher	1	13	13
Field Work	1	10	10
Test, seminar paper	4	2	8
Homework	1	10	10
Self-study (library or home)	1	10	10

Preparation for final exam	1	15	15
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.			
Total			156

Teaching Methods:	-Lecture -Discussion during lectures -Field measurement exercises -Team work
Assessment Methods:	In evaluation, all the partial evaluation will be added. The evaluation will be broken down as follows: First evaluation 7.5% Second evaluation 7.5% Seminar 15% Attendance 5% Final exam 65% Total 100%

Primary Literature:	1) Torge, W.: Geodesy, 3rd Edition, Walter de Gruyter, 2001. 2) Bauer, M.: Vermessung und Ortung mit Satelliten, Wichmann verlag, 2003
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Additional Literature:	1) Nela, K.: Gjeodezi Praktike II, 2005
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Designed teaching plan	
Week	Title of the Lecture
Week 1:	How to organize field surveying
Week 2:	How to collect data for geodetic networks
Week 3:	Basic theories of field surveying
Week 4:	Classical methods for determining of unknown coordinates
Week 5:	Different methods for angle measurements
Week 6:	Surveying from eccentric station and reduction them in center
Week 7:	Reduction of measured direction from eccentric signal
Week 8:	Basic geodetic calculation in Cartesian referent system
Week 9:	Different methods in distance measurements
Week 10:	Calculation of coordinates from back and front "cutting"
Week 11:	Basic of trilateration
Week 12:	Measurement of distances and angles in triangle
Week 13:	"Arcs cutting"
Week 14:	Prerja e vizurave te jashtme.
Week 15:	Prerja e vizurave te brendshme.

Academic Policies and Code of Conduct
<ul style="list-style-type: none"> - Regular attendance of lectures and exercises - Being quiet during the sessions - Shutting down mobile phones - 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 %.