

Course title :

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	Geodetic networks
Level:	Bachelor
Course Status:	Mandatory
Year of Study:	Year 3, Semester 5
Number of Classes per Week:	2+2
ECTS Credits:	6
Time /Location:	According to the Timetable
Teacher:	Prof.Asoc.Dr. Perparim Ameti
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Course Description:	The subject starts with basic knowledge of the shape and size of the earth, respectively the geodesy tasks in defining the shape and size of the earth, the methods of establishing geodetic networks, continuing with the types of geodetic networks and their placement, and concludes with data processing and adjustment.
Course Goals:	Main goal of this course is to develop basic knowledge about main tasks in geodesy and how to establish geodetic referent networks.
Expected Learning Outcomes:	After finishing this course the student should be able to: <ul style="list-style-type: none"> - Design the establishment of geodetic referent networks. - Understand phases in establishment of geodetic referent networks - Calculate and adjust geodetic referent networks

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	15	15
Self-study (library or home)	1	15	15
Preparation for final exam	1	15	15
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.	1	15	15
Total			156

Teaching Methods:	<ul style="list-style-type: none"> - Lecture - Discussion during lectures - Field measurement exercises - Work in group
Assessment Methods:	<p>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:</p> <p>First Evaluation: 15%</p> <p>Second Evaluation: 15%</p> <p>Homework or other engagement: 10%</p> <p>Attendance 5%</p> <p>Final Exam 55%</p> <p>Total 100%</p>

Primary Literature:	<p>1) Lu, Zhiping, Qu, Yunying, Qiao, Shubo, GEODESY, 2014</p> <p>2) Torge, W.: Geodesy, 3rd Edition, Walter de Gruyter, 2001.</p>
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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:	Shape and size of the earth
Week 2:	Geodesy and its tasks in determining shape and size of the earth
Week 3:	Ellipsoid geometry
Week 4:	Basic knowledge on classic methods in establishment of geodetic referent networks
Week 5:	Types of geodetic control networks
Week 6:	Establishment of first order geodetic networks
Week 7:	Establishment of global and regional geodetic networks
Week 8:	Establishment of local networks First valuation
Week 9:	Modern methods in establishment of geodetic networks
Week 10:	GNSS application in establishing geodetic networks
Week 11:	Different methods in GNSS surveying in establishing of first order geodetic networks
Week 12:	Stages of work in establishing geodetic network
Week 13:	Design of geodetic network
Week 14:	Processing and adjustment of GNSS geodetic networks
Week 15:	Application of software in processing and adjustment Second valuation

Academic Policies and Code of Conduct

- 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 %.