

Course title : Introduction to Geotechnics

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Introduction to Geotechnics		
Level:	Bachelor		
Course Status:	Elective		
Year of Study:	Year1, Semester 2		
Number of Classes per Week:	2+1		
ECTS Credits:	3		
Time /Location:	According to the Timetable		
Teacher:	Prof.Ass.Dr. Qani Kadiri		
Contact Details:	perparim.ameti@uni-pr.edu + 383 44 244 748		
Course Description:			
Course Description:	Soil classification, physical properties of soils, Necessary bases for foundation design, Shallow foundations, Separate foundations, Pillars of prefabricated piles, Continuous foundations, Slab foundations, Concrete protective walls, Irrigation canals and water supply channels, diaphragm. Road fillings, Dams from the surrounding material, Pilots, airport runways, Runways, open and closed water canals, Automobile, railway, hydrotechnical tunnels, etc.		
Course Goals:			
Course Goals:	Necessary prior knowledge on various geotechnical facilities such as: types of foundations, types and forms of fillings from different materials, the shape of dams from the surrounding material, airport runways, open and closed canals, tunnels, etc.		
Expected Learning Outcomes:			
Expected Learning Outcomes:	Upon completion of the lectures of this course students will have understood the types and forms of geotechnical objects. They will have knowledge on the various foundations which as surveyors will encounter in civil engineering, they will know on the way of realizing the road body, digging and cutting the road, dams from the circumstantial material, they will know how to level the materials of different used for airport layers, know how to follow the opening of the tunnel profile, open channel profile, will know how to follow the works during the realization of the foundations of the bridge pillars, etc.		
Student Workload (should be in compliance with student's Learning Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	0	0	0
Practical Work			
Study for intermediate test	1	7	7
Consultations with the teacher	1	2	2

Field Work	1	2	2
Test, seminar paper	1	2	2
Homework	1	12	12
Self-study (library or home)	1	15	15
Preparation for final exam	1	2	2
Assessment time (test, quiz, final exam)	1	3	3
Projects, presentations, etc.	2	15	30
Total			75

Teaching Methods:	-Lecture -Exercises -Elaborate
Assessment Methods:	First Valuation: 25% Homework: 10% Participation on the lectures: 10% Final Exam: 55% Total: 100%

Primary Literature:	<ol style="list-style-type: none"> 1. Dr.sc. Qani V. KADIRI, Ligjërata të autorizuar nga Mekanika e dherave dhe Fondamente, FNA, Prishtinë 2. Braja Das, Principle of Foundation Engineering, USA
Additional Literature:	<ol style="list-style-type: none"> 1. Prof.Dr. Ervin Nonweiler, Mehanika tla i temeljenje gradevina, Zagreb 2. V.N.S Murthy, Geotechnical Engineering, USA 3. J. Bowles, Foundation analysis and design, USA

Designed teaching plan	
Week	Title of the Lecture
Week 1:	Soil classification
Week 2:	Physical properties of soils
Week 3:	Shallow foundation: Shallow foundation, detached foundations
Week 4:	Shallow foundation: Continuous foundations, slab foundations
Week 5:	Construction pit and pit securing
Week 6:	Protective constructions: Protective walls, pilots, diaphragms
Week 7:	The first test. First valuation
Week 8:	Water supply and sewerage canals, canal security
Week 9:	Open and closed water channels
Week 10:	Road fillings, dams
Week 11:	Slopes, slope shapes
Week 12:	Plots, airport runways
Week 13:	Scissors – Tombinot
Week 14:	Tunnels
Week 15:	The second test. Second valuation

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 %.