

Course title: Foundation

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course Name:	Foundation		
Level:	BSc		
Course Status:	Compulsory		
Year of Study:	Third (III), V th semester		
Number of Hours per Week:	2+2		
ECTS Credits:	6		
Time /Venue:	According to the Timetable		
Course Teacher:	Prof.asoc.Dr. Neritan Shkodrani PUT-FCE		
Contact Details:	Email: neritan.shkodrani@uni-pr.edu www.fn.uni-pr.edu		
Course Description			
Course Description	Corse Geotechnical Engineering: Basis of foundation Design, Improvement and Replacement of Soils, Shallow foundation, Static Analysis of foundation, Foundation Stability Control, Spared Foundations, Determination of Dimensions and Foundation, Montage Pillar Foundations, Anchors foundation, Continuous Foundations, Calculation of Continuous Foundation on Elastic Basement, Raft Foundation, Protection of excavations, Retaining Walls, Pile Foundation,		
Course Objectives:	Course Objectives: Knowing the basics necessary for designing foundations, foundation methods, determining the dimensions of foundations and basic techniques for foundation design and securing the sides of the excavation and Soil improvement.		
Learning Out Comes :	Upon completing the lectures of this course, students will have understood the fundamentals of foundations, understand the basics necessary for the design of foundations, know how to make the design of the foundation dimensions, control the stability of the foundation, make the selection of foundation type depending on the load from structure, geotechnical terrain profile, mechanical properties of soils, permissible soil loads and settlement, foundation on pile and soil improvement.		
Student Workload (Consistent with the Learning Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work	2	150	30
Practical Work			
Contact Hours with Teacher /Consultations during Office Hours	1	10	10
Field Work	1	10	10
Colloquium, Seminars	2	2	4
Homework	2	15	30
Self-study Time (in the Library or at Home)	1	15	15
Final Exam Preparation	2	10	20

Evaluations (Tests, Quiz, Final exam)	1	1	1
Projects, Presentations, etc.	0	0	0
Total			150

Teaching Methodology:	Lectures, exercises and elaborates, "In situ"
Evaluation Methods:	In the assessment should be assigned the percentage of each estimate intermediary partial or final assessment. One of the ways the assessment would have been as follows: The first assessment: 25% Homework or other commitments 10% Regular attendance 10% Final Exam 55% Total 100%

Basic Literature:	[1] Braja Das, Principle of Geotechnical Engineering, USA
Additional Literature:	[2] Prof.Dr. Ervin Nonweiler, Mehanika tla i temeljenje gradevina, Zagreb [3] V.N.S Murthy, Geotechnical Engineering, USA [4] J. Bowles, Foundation analysis and design, USA

Course Plan:	
Week	Title of the Lecture
Week 1:	Bases for foundation design
Week 2:	Improving and replacing the soils
Week 3:	Shallow foundation
Week 4:	Spread foundation
Week 5:	Empirical way of calculating the foundation
Week 6:	The foundations of the montage pillars
Week 7:	Continuous foundations
Week 8:	Foundation on elastic basement
Week 9:	Raft foundation
Week 10:	Protection of excavation
Week 11:	Retaining walls
Week 12:	Mechanical stabilized earth retaining wall
Week 13:	Pile foundation
Week 14:	Sheet pile wall and braced cuts
Week 15:	Soil improvement

Academic Policies and Rules of Civility:
<i>The teacher assigns the criteria for regular attendance in classes and rules of conduct, to maintain the peace in teaching, disconnected mobile phones, entrance in room with time, etc.)</i>