GEOTECHNICS I. SOIL MECHANICS 2021/22. 1. SEMESTER

ALAPADATOK							
COURSE NAME	Geotechnics I. S	oil Mechanics	Geotechnika I.				
COURSE CODE(S)	SGYMKOM2040	SGYMKOM2040ER					
DEPARTMENT	Óbuda University Ybl Miklós Faculty of Architecture and Civil Engineering, Institute of Civil Engineering						
PROGRAMME, TRAINING	Eras	smus course	full time				
COURSE INSTRUCTOR (Instructor managing the course)	Prof.Dr.Telekes Gábor	telekes.gabor@ybl.uni- obuda.hu	consulting hours: later				
INSTRUCTORS, LECTURERS	Kaczvinszki- Szabó Vera	szabo.vera@ ybl.uni- obuda.hu	consulting hours: later				
PRE-REQUIREMENT	none						
HOURS OF LECTURES (WEEKLY)	2 hours (90 min.)						
HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)	2 hours (90 min.)						
FIELD AND TRAINING (WEEKLY)	0 hours						
ASSIGNMENT	Midterm assignment.						
CREDITS	8 credits (ECTS)						
AIM OF THE COURSE, BRIEF DESCRIPTION	The aim of the course is to provide an overview of soil mechanics, the physical parameters of the different soil types, the laboratory tests and evaluation of the test results.						
RECOMMENDED LITERATURE	Craig's Soil Mechanics J. A. Knappett and R. F. Craig, Spon Press an imprint of Taylor & Francis London and New York ISBN: 978-0-203-86524-8 (ebk)						
REQUIRED TECHNICAL APPLIANCES/ SOFTWARE	The use of mobile phones is prohibited during the examinations. Contact: Neptun and E-mail. Education materials: According to E-learning Lessons: E-learning						



YAN

SCHEDULE OF THE SEMESTER							
WEEK	LECTURE	LECTURER	FORM OF PRACTICE	PROGRAM OF PRACTICE			
1	Why is important for civil engineers to know something about soil and the different behaviour of different soil types (granular and cohesive soils)	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	introduction of different geological sampless			
2	Soil Mechanical borins and soil sampling	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	grain size distribution cure			
3	Stresses in soils	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	cohesive soils identification			
4	Basic soil physical parameters of soils	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
5	Unidirectional and three directional break test	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
6	Shear test	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
7	Odometer test and Proctor test	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
8	Calculation practice	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
9	1st test	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
10	Water in soil and permeability	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
11	In situ tests	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
12	Case study	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	labor/e-learning	same as lecture			
13	Summary	Prof. Dr.Telekes Gábor and Kaczvinszki-Szabó Vera	lecture/e-learning	same as lecture			
14	Final Test	Prof. Dr. Telekes Gábor and Kaczvinszki-Szabó Vera					



REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER				
MID-SEMESTER TASKS AND TESTS				
Requirement	Description			
PARTICIPATION AT LESSONS	The practice lessons can be missed up to three times (see § 46 ETVSZ)	-		
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Absence is considered to be justified with a medical certificate presented.	-		
Short description of the TASKS	The students are able to make and understand Soil Mechanical Experties.			
Pre-exam / exam	At the end of the semester, final written test. If you failed or want a better mark you can try the oral part of the exam.	100%		
TOTAL		1-5 grade		

SEMESTER CLOSING REQUIREMENTS							
CONDITIONS FOR OBTAINING A SIGNATURE							
SEMESTER GRADE	0-59 Point	60-69	70-79		80-89	90-115	
	1 - FAIL	2 - PASS	3 - SATISFACTORY		4 - GOOD	5 - EXCELLENT	
CONDITIONS FOR	24 out of the 40 points has to be reached in the test and at least 80 points together with the semester tasks.						
OBTAINING AN OFFERED GRADE	80-89 Point			90-115 Point			
	4 - GOOD			5 - EXCELLENT			
CONDITIONS FOR ADMISSION TO THE EXAM	Only students who have already obtained a signature can take the exam. During the exam period, the student has to register for the exam in the Neptun. The test is a 60-minute written test with a total value of 40 points.						
EXAM GRADE	0-59 Point	60-69	70-79		80-89	90-115	
	1 - FAIL	2 - PASS	3 - SATISFACTORY		4 - GOOD	5 - EXCELLENT	

