

ENVIRONMENTAL GEOTECHNICS

2021/22. 1. SEMESTER

ALAPADATOK			
COURSE NAME	Environmental Geotechnics		env. geo.
COURSE CODE(S)	SGYMKOM2418ER		
DEPARTMENT	Óbuda University Ybl Miklós Faculty of Architecture and Civil Engineering, Institute of Civil Engineering		
PROGRAMME, TRAINING	Erasmus course		full time
COURSE INSTRUCTOR (Instructor managing the course)	Prof.Dr.Telekes Gábor	telekes.gabor@ybl.uni-obuda.hu	consulting hours: later
INSTRUCTORS, LECTURERS	Dr. Putnoki Zsuzsanna	putnoki.zsuzsanna@ybl.uni-obuda.hu	consulting hours: later
PRE-REQUIREMENT	none		
HOURS OF LECTURES (WEEKLY)	1 hours (45 min.)		
HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)	2 hours (90 min.)		
FIELD AND TRAINING (WEEKLY)	0 hours		
ASSIGNMENT	Midterm assignment.		
CREDITS	4 credits (ECTS)		
AIM OF THE COURSE, BRIEF DESCRIPTION	The aim of the course is to provide an overview of environmental thinking, as environmental problems, protect environment, sustainability, environmental legislation and after the specialized problems with soil and landfills.		
RECOMMENDED LITERATURE	<ul style="list-style-type: none"> Limits to Growth: the 30 years update by Donella Meadows, Dennis Meadows, Jorgen Randers; 2013., Chelse Green Publishing Co., ISBN13 9781931498586 europa.eu – as the EU’s official website (available in 24 languages) 		
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		

SCHEDULE OF THE SEMESTER				
WEEK	LECTURE	LECTURER	FORM OF PRACTICE	PROGRAM OF PRACTICE
1	Introductions and basic environmental aspects. Definitions, international and regional (EU) bodies in environment. Transboundary effects in environmental problems and different legislation levels.	Dr. Putnoki Zsuzsanna	lecture/e-learning	same as lecture
2	Sustainable Development. Different between sustainability and environmental legislation. Limits to Growth.	Dr. Putnoki Zsuzsanna	lecture/e-learning	ecological footprint calculator
3	Environmental policy in the EU, generally. EAPs, EEA., etc.		lecture/e-learning	
4	Climate change and aspects. International and regional (EU) levels. UNFCCC, IPCC, Kyoto Protocol and Paris Agreement. EU's cap and trade system in emission trade (ETS).	Dr. Putnoki Zsuzsanna	lecture/e-learning	Emission trade calculating
5	Water and soil in EU's environmental policy. Water Framework Directive. Definitions, problems with connections water and soil.	Dr. Putnoki Zsuzsanna	lecture/e-learning	same as lecture
6	Waste in EU's environmental policy. Definitions, like end of waste status, etc. Cases to understand the differences between waste and other categories in waste legislation.	Dr. Putnoki Zsuzsanna	lecture/e-learning	municipal solid waste incineration plant or landfill I.
7	SEVESO rules. Different between hazardous waste (and waste) and technological disaster risk reduction.	Dr. Putnoki Zsuzsanna	lecture/e-learning	same as lecture
8	Stability problem of waste disposal	Prof. Dr. Telekes Gábor	lecture/e-learning	municipal solid waste incineration plant or landfill II.
9	Physical parameters of different type of waste	Prof. Dr. Telekes Gábor	lecture/e-learning	municipal solid waste incineration plant or landfill III.
10	Landslides and debrisflow	Prof. Dr. Telekes Gábor	lecture/e-learning	same as lecture
11	Basic introduction of earthquakes	Prof. Dr. Telekes Gábor	lecture/e-learning	same as lecture
12	Case-studies	Prof. Dr. Telekes Gábor	labor/e-learning	municipal solid waste incineration plant or landfill IV.
13	Summary	Prof. Dr. Telekes Gábor	lecture/e-learning	same as lecture
14	test	Prof. Dr. Telekes Gábor	test	-

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER		
MID-SEMESTER TASKS AND TESTS		
Requirement	Description	Value (point, %, grade)
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 be able to thinking about environment, what is the most important problem in environment and how to manage and solve this problems as a civil engineer or architect in future. How to use some part of environment (as soil or waste) in engineering and municipal waste disposal.	
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 OBTAINING AN OFFERED GRADE	24 out of the 40 points has to be reached in the test and at least 80 points together with the semester tasks.				
	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