



Syllabus

Term: 2020/21/2 **Subject name:** Case Studies in Geotechnical Engineering **Subject code:** MSM140ANEP

Unit (Unit code) (MIK-MS)

Lecturer responsible for the course: Dr. JÓZSA Vendel
Requirement: Mid-semester grade
Classes per week : 2/0/0/0
Classes per term: 14/0/0/0

Purpose of education:

Learning Objectives:

Students will gain from this course:

- Knowledge of preparation of ground investigation,
 - Practical knowledge of selecting the locations of investigation points,
 - Understanding of the interpretation method of geotechnical results.
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Contents:

Introduction, General Course Description:

This course aims at teaching the basics of geotechnical and soil mechanical problems and covers the following topics: Swelling of clay, foundation on organic soil, weak and compressible soil, failures of geotechnical structures and buildings.

This subject intends to provide students with knowledge in the case studies from all over the world (e.g. deep excavations, dams, building damages). An additional objective is to prepare students with a basic knowledge in geomechanics of failures (e.g. Collapse of compacted soil, dynamics of dam sliding).



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Contents:

Schedule:

1. Course description. Orientation, case studies I., Homework interpretation
2. case studies II.
3. Student presentations of homework
4. Student presentations of homework
5. Student presentations of homework
6. Midterm Homework, Midterm exam
7. (supplementary) Midterm exam

System of examining and valuation:

Attendance:

Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lesson will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

Grading:



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System of examining and valuation:

10% - Attendance

40% - Midterm Homework

50% - Final Exam

Grade:	5	4	3	2	1
Evaluation in percents:	88%-100%	76%-87%	63%-75%	51%-62%	0-50%

Students with Special Needs:

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Bibliography:

- **Bond, A. and Harris A.: *Decoding Eurocode 7*, London: Taylor & Francis 2008.**
- **Farkas, J., Józsa, V., Szendefy J. (2014): *Foundation Engineering*, elektronikus angol BSc egyetemi jegyzet, BME, Geotechnikai Tanszék p. 97.**
- **Presentations**