Tárgytematika

Félév: 2020/21/2 **Tárgynév:** Talaj és szerkezet kölcsönhatása **Tárgykód:** MSM138ANEP

Felelős szervezet neve:	Mérnöki és Smart Technológiák Intézet
Felelős szervezet kódja:	MIK-MS
Tárgyfelelős neve:	Dr. Józsa Vendel
Tárgy követelménye:	Évközi jegy
Tárgy heti óraszáma:	2/0/0/0
Tárgy féléves óraszáma:	14/0/0/0

Oktatás célja:

This course aims at teaching the basics of soil mechanics connecting to the (geotechnical) structures and covers the following topics: basics of Eurocode 7, equilibrium states and conditions of equilibrium; deep excavation; anchoring; monitoring systems, foundations.

Tantárgy tartalma:

This subject intends to provide students with knowledge in the basics of geotechnical serviceability and ultimate limit state, excavation methods, and lateral supporting systems (e.g. braced excavation, top-down,- anchored method), retaining walls, strutting systems, foundation design. An additional objective is to prepare students with a basic knowledge for compare monitoring,- and calculated results.

Students will gain from this course:

Knowledge of equilibrium states,

Practical knowledge of excavation methods,

Understanding of monitoring systems.

Számonkérési és értékelési rendszere:

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,

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Számonkérési és értékelési rendszere:

the student must present a valid excuse, such as a doctor's note.

Grading:

10% - Attendance

40% - Homework (min. 20%)

50% - Final Exam (min. 25%)

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

Kötelező irodalom:

- ***Bond, A. and Harris A. (2008): Decoding Eurocode 7*, London: Taylor & Francis.**
- *Chang Y.O. (2006):* Deep Excavation, Theory and Practice, London: Taylor & Francis.
- ***Das, B.M. (1998):* Principles of Geotechnical Engineering, 4th edition, PWS Publishing Company.**
- ***Farkas, J., Józsa, V., Szendefy J. (2014):* Foundation Engineering, BME, p. 97.**
- **Presentations**