Special geotechnical tests - BMEEOGMDT72 - 2024/25/2

I. Subject Specification

1. Basic Data

1.1 Title

Special geotechnical tests

1.2 Code

BMEEOGMDT72

1.3 Type

Module with associated contact hours

1.4 Contact hours

Type	Hours/week /
	(days)
Lab	2

1.5 Evaluation

Exam

1.6 Credits

3

1.7 Coordinator

name	Balázs Móczár Ph.D.
academic rank	Associate professor
email	balazs.moczar@emk.bme.hu

1.8 Department

Department of Engineering Geology and Geotechnics

1.9 Website

https://epito.bme.hu/BMEEOGMDT72 https://edu.epito.bme.hu/course/view.php?id=2532

1.10 Language of instruction

english

Special geotechnical tests - BMEEOGMDT72 - 2024/25/2 1.11 Curriculum requirements Ph.D. 1.12 Prerequisites 1.13 Effective date

1 September 2022

Special geotechnical tests - BMEEOGMDT72 - 2024/25/2 2. Objectives and learning outcomes 2.1 Objectives The scope of this course is to familiarise students with the full range of field and laboratory geotechnical investigations, with a particular focus on specialised investigations not covered in the BSc and MSc courses 2.2 Learning outcomes Upon successful completion of this subject, the student: A. Knowledge 1. knows about specialised laboratory and field geotechnical investigations B. Skills 1. is able to prepare geotechnical exploration plans C. Attitudes 1. ready to learn D. Autonomy and Responsibility 1. is autonomous 2.3 Methods

Showing laboratory test procedures and in situ geotechnical site investigations

2.4 Course outline

All classes are held in one week, immediately after the school, over 5 days. The basic programme for the week (day by day)

Monday: Site visit somewhere in the Budapest area. Geophisical subgrade surveying-testing: ground radar (GPR), electromagnetic and geoelectric tomography. Land seismic surveying

Tuesday: Site visit somewhere in the Budapest area. Drillings, soundings, compaction tests, sampling methods

Special geotechnical tests - BMEEOGMDT72 - 2024/25/2 Wednesday: Site visit somewhere in the Budapest area. Drillings, soundings, compaction tests, sampling methods Thursday: Special laboratory testing: Triaxial tests, dynamic test, compression and consolidation tests, liquefaction tests Friday: Special laboratory testing: Triaxial tests, dynamic test, compression and consolidation tests, liquefaction tests The exact daily schedule will only be known the week before The above programme is tentative and subject to changes due to calendar variations and other reasons specific to the actual semester. Consult the effective detailed course schedule of the course on the subject website. 2.5 Study materials a) Online materials: 1. Electronic notes presented on the site and laboratory visits 2.6 Other information 2.7 Consultation The instructors are available for consultation during their office hours, as advertised on the department website. Special appointments can be requested via e-mail: moczar.balazs@emk.bme.hu This Subject Datasheet is valid for:

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II. Subject requirements

Assessment and evaluation of the learning outcomes

3.1 General rules

There is a written exam.

3.2 Assessment methods

Evaluation form	Abbreviation	Assessed learning outcomes
written exam	E	A.1; B.1; C.1; D.1

The dates of deadlines of assignments/homework can be found in the detailed course schedule on the subject's website.

3.3 Evaluation system

Abbreviation	Score
E	100%
Sum	100%

3.4 Requirements and validity of signature

Participation in 100 % of on-site and laboratory investigations

3.5 Grading system

Grade	Points (P)
excellent (5)	85<=P
good (4)	70<=P<85%
satisfactory (3)	60<=P<70%
passed (2)	50<=P<60%
failed (1)	P<50%

3.6 Retake and repeat

There is no retake

3.7 Estimated workload

Activity	Hours/semester
participation of site and laboratory visits	14×2=28
preparation for the exam	50
Sum	78

3.8 Effective date

1 September 2022

This Subject Datasheet is valid for:

