Diploma Project Structural Engineering MSc Program - BMEEODHMG-D

I. Subject Specification

1. Basic Data

1.1 Title

Diploma Project Structural Engineering MSc Program

1.2 Code

BMEEODHMG-D

1.3 Type

Module without associated contact hours

1.4 Contact hours

Type	Hours/week / (days)
Consultation	1

1.5 Evaluation

Midterm grade

1.6 Credits

20

1.7 Coordinator

name	Ákos Török
academic rank	Professor
email	torok.akos@emk.bme.hu

1.8 Department

Dean's Office

1.9 Website

https://edu.epito.bme.hu/course/view.php?id=3366
https://fiek2.mywire.org/course/view.php?id=3366

1.10 Language of instruction

hungarian and english

1.11 Curriculum requirements

Recommended elective in the Specialization in Geotechnics and Geology, Strcutural Engineering (MSc) programme

1.12 Prerequisites

1.13 Effective date

1 September 2021

2. Objectives and learning outcomes

2.1 Objectives

The students should prove that he / she has acquired the knowledge and fulfilled the general requirements required by the MSc programme. The Master Thesis project course establishes the frame to the special workflow for structural engineering, and pay outstanding attention to the field of geotechnics and engineering geology
The subject of the Master Thesis project is from within the domain of structural engineering in accordance with the outcome requirements.

2.2 Learning outcomes

Upon successful completion of this subject, the student:

A. Knowledge

1. knows the general rules, relations and methods of mathematics and natural sciences used in the domain of civil engineering,
2. knows the basic theories, relations and their terminology used by the structural engineer's domain,
3. acquires a deeper knowledge within the theme of the chosen Master Thesis project,
4. knows and understands the informatics, the communication technology and the basic laws related to civil and structural engineering, more precisely geotechnics and engineering geology

B. Skills

1. uses with good results the different resources of information related to the project,
2. makes a bibliographic search and reviews the adequate literatures related to the project,
3. communicates well in written and in oral with the technical terms, uses the adequate graphical representations,
4. is able to criticize and use the theoretical knowledge int he preparation of the Master Thesis project.

C. Attitudes

1. cooperates with his/her tutor (s) during the preparation of the project,
2. aims to acquire the knowledge of the informatic tools and software
3. constantly improves his/her knowledge and is open to the new techniques of information acquirements.

D. Autonomy and Responsibility

1. works independently and responsibly on the project
2. works constantly, respects the deadline (s)
3. accepts with an open mind the founded critics,
4. uses the systematic approach during the work on the project.

2.3 Methods

The work is directed by the tutor and the help of other consultants is available. The Master Thesis project is mainly an independent work made at home directed by the consultations.

2.4 Course outline

The topic of the Master Thesis project and the details to be developed are individually determined for each students and is stated int he principal description.
The department determines the rules of the preparation of the project, the form and the content of the work in accordance with the Regulations of the University. The department informs the student about these rules.
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

Literature related to the topic is to be used, especially those referenced by the tutor.

2.6 Other information

The finished Master Thesis project has to be approved by the tutor and can be delivered personally.

2.7 Consultation

The instructors are available for consultation during their office hours, as advertised on the department website. Special appointments can be requested.

This Subject Datasheet is valid for:

2023/2024 semester I

II. Subject requirements

Assessment and evaluation of the learning outcomes

3.1 General rules

The principal description states the topic and the required development of the Master Thesis project. The progress and the development requirements is stated in a consultation dairy kept by the student.

3.2 Assessment methods

The Master Thesis project is the result of a home work directed by the tutor and driven by consultations. The grade of the Master Thesis project course differs from the diploma grade given by the jury and gives no warranty to obtain later. The grade of this course represents mainly the activity of the student during the semester. The diploma grade represents mainly the content of the Master Thesis project.

Evaluation form	**Abbreviation**	**Assessed learning outcomes**
attendance and activity	A	A.1-A.4; B.1-B.4; C.1-C.3; D.1-D.4

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**
A	100%
Total achievable during the semester	100%
Sum	**100%**

3.4 Requirements and validity of signature

Signature can not be obtained.

3.5 Grading system

According to the Regulations of the University 138 § 5., to the requirements of the course and the regulations of the faculty the tutor determines the grade. The obtention of a minimum of passable grade does not require that the Master Thesis project should be submitted by the end of the semester.

3.6 Retake and repeat

1. The Master Thesis project can be submitted until 12:00 of the last day of the catch up week by the accord of the tutor. A fee is due.
2. The attendance and the acivity , due to its personal form, cannot be repeated , nor redeemed.

3.7 Estimated workload

Activity	**Hours/semester**
participation at the consultations	14
individual preparation for the project	500
individual acquirement of a referenced written lecture note	86
Sum	**600**

3.8 Effective date

1 September 2021

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