Relationship between structure and behaviour of concrete - BMEEOEMDT83

I. Subject Specification

1. Basic Data

1.1 Title

Relationship between structure and behaviour of concrete

1.2 Code

BMEEOEMDT83

1.3 Type

Module with associated contact hours

1.4 Contact hours

Type	Hours/week / (days)
Lecture	2

1.5 Evaluation

Exam

1.6 Credits

3

1.7 Coordinator

name	Salem Nehme
academic rank	Associate professor
email	nehme.salem@emk.bme.hu

1.8 Department

Department of Construction Materials and Technologies

1.9 Website

https://epito.bme.hu/BMEEOEMDT83
https://fiek2.mywire.org/course/view.php?id=2520

1.10 Language of instruction

hungarian and english

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1.11 Curriculum requirements

Ph.D.

1.12 Prerequisites

1.13 Effective date

1 September 2022

2. Objectives and learning outcomes

2.1 Objectives

The subject conveys knowledge about the special structure of concrete. In the framework of the subject, students can get to know the micro, meso and macro structure, as well as the effect of concrete porosity on its properties.

2.2 Learning outcomes

Upon successful completion of this subject, the student:

A. Knowledge

1. It has an overview of the theory and methods of the special concrete structure,
2. It has an overview of the effect of concrete porosity on durability (environmental classes),
3. It has an overview about the particularities of the correlations of special concrete properties,
4. Knows the exposure classes according to the environmental effects on reinforced concrete structures.

B. Skills

1.

C. Attitudes

1.

D. Autonomy and Responsibility

1.

2.3 Methods

Lectures

2.4 Course outline

Week	Topics of lectures and/or exercise classes

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1.	
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14.	

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

2.6 Other information

2.7 Consultation

This Subject Datasheet is valid for:

Inactive courses

II. Subject requirements

Assessment and evaluation of the learning outcomes

3.1 General rules

3.2 Assessment methods

Evaluation form	Abbreviation	Assessed learning outcomes
		A.1-A.4; 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
Sum	**100%**

3.4 Requirements and validity of signature

3.5 Grading system

Grade	Points (P)
excellent (5)	
good (4)	
satisfactory (3)	
passed (2)	
failed (1)	

3.6 Retake and repeat

3.7 Estimated workload

Activity	Hours/semester
Sum	

3.8 Effective date

1 September 2022

This Subject Datasheet is valid for:

Inactive courses