COURSE TEMATICS AND REQUIREMENTS 2018/2019. 2ND SEMESTER

Course Title	Prestressing Technologies
Course code	MSM409ANEP
Class hours per week: le/pr/lab	2/0/0
Credit	2
Training name	Structural Engineer (MSc)
Mode	Full time training
Form of assessment	Semester mark
Semester	2
Required course	-
Department	Civil Engineering
Responsible lecturer	András Dormány

AIM OF COURSE

This course is aimed at providing basic and advanced knowledge on the mechanics, design and construction of prestressed concrete structures.

CONTENT

Short description: This course is aimed at providing basic and advanced knowledge on the mechanics, design and construction of prestressed concrete structures. Topics covered will include: basic concept of prestressing, prestressing systems and technologies, stress distribution in prestressed concrete structures, determination of prestress losses, flexural and shear behaviour at service and ultimate loads, deflection and crack control, design for serviceability and ultimate limit states, design of prestressed beams and slabs, external prestressing, strengthening with prestressing, durability and maintenance of prestressed concrete structures, case studies.

Lectures:

- 1. Concept of prestressing
- 2. Stress losses
- 3. Prestressed floors, publishing the first assigment and brief
- 4. Publishing the second assignment and brief
- 5. Consultation

ASSESSMENT METHOD

Attendance: According to Code of Studies.

Terms to get the signature: Succes perform of midterm exam and semester assignments.

Course grade: The course grade is created by the combination of midterm exam and semester assignments. The earned points need to achieve 51% to get grade pass.

OBLIGATORY AND OFFERED SOURCES

[1.] Lecture slides

[2.] Eurocode 2: Design of concrete structures

[3.]

SCHEDULE

		STUDY PERIOD												EXAM PERIOD							
2018/2019. II. FÉLÉV			2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	1.	2.	3.	4.	5.
	Lecture #		1				2		3			4	5		6						
Midterm exam																					
Semester assignemnt	Publishing								1st			2nd									
	Deadline															Х					
	Semester mark																S M				

2019.02.06.

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responsible lecturer