

COURSE TEMATICS AND REQUIREMENTS
2018/2019. 2ND SEMESTER

<i>Course Title</i>	<i>Timber and Masonry Structures</i>
<i>Course code</i>	MSB397ANEP
<i>Class hours per week: le/pr/lab</i>	1/1/0
<i>Credit</i>	2
<i>Training name</i>	Civil Engineer (BSc)
<i>Mode</i>	Full time training
<i>From of assessment</i>	Semester mark
<i>Semester</i>	4
<i>Required course</i>	-
<i>Department</i>	Civil Enginerring
<i>Responsible lecturer</i>	András Dormány

AIM OF COURSE

The course provides basic knowledge to the theory, design and construction of timber and masonry structures.

CONTENT

Short content: The course provides basic knowledge to the theory, design and construction of timber, masonry and stone structures. The subjects covered include: strength and material characteristics of wood. Basic design methods for members of traditional timber structures. Design of timber connections for shear, tension and compression. Design of timber structures according to Eurocode 5. History of masonry constructions. Types and strength characteristics of masonry. Non-reinforced and reinforced walls. Design methods for masonry according to Eurocode6. Mixed (stone and brick) walls. Design and assessment of loadbearing stone structures.

Lecture:

1. Introduction to timber structures
2. Design of timber structures
3. Modern usage of masonry structures
4. First midterm exam
5. Masonry properties
6. Design of masonry structures

7. Second midterm exam

Practice.:

1. Timber properties calculation (characteristic and design values)
2. Timber structure desing loaded by pure and combined load
3. Explain of semester assignment
4. Timber connection design
5. Semester assignment presubmitting
6. Masonry structure design
7. Semester assignment consultation

ASSESSMENT METHOD

Attendance: According to Code of Studies.

Terms to get the signature: Succes perform of midterm exams and semester assignment.

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

OBLIGATORY AND OFFERED SOURCES

- [1.] Lecture files
- [2.] J. Porteus, A. Kermani: Structural Timber Design to Eurocode 5
- [3.] Eurocode 5: Design of timber structures
- [4.] Eurocode 6: Design of masonry structures

SCHEDULE

		STUDY PERIOD															EXAM PERIOD						
2018/2019. 2ND SEMESTER		1.	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		7									
Practice #			1		2		3		4				5		6	7							
Midterm exams/retake exam								ME						ME		RE							
Semester assignment	Publishing																						
	Deadline																						
Lecture signature																LS							

2019.02.06

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responsible lecturer