

COURSE SYLLABUS

ACADEMIC YEAR 2021/2022 SEMESTER FALL

Name of Course	Timber Structures
Course Code	EPB393ANEP
Allotment of Hours per Week	1/1/0
Number of Credits	2
Program	Full Time
Evaluation	Exam
Semester	7th
Prerequisites	Timber and Masonry Structures
Department	Civil Engineering
Instructor	Tibor Bakó Dr., (responsible), András Dormány (lecture), Saied Kashkash (practice)

INTRODUCTION, GENERAL COURSE DESCRIPTION

Advanced knowledge of timber structures and design of timber connections.

LEARNING OBJECTIVES

Short description: This course is aimed to provide basic and advanced knowledge on the principles of the design timber structures. Topics covered by the course include:

- 1- Design of Glued Laminated Members
- 2- Design of Metal Dowel Type Connections
- 3- Design of Joints with Connectors

Methodology:

Theoretical knowledge about different types of timber structures with design examples and practice.

Lectures:

1. Design of Glued Laminated Members
2. Design of Metal Dowel connection
3. Design of Joints with connectors
4. Moment capacity of connections
5. Composite Timber sections and built up columns
6. Exam

Practices:

1. Glued Laminated cross section analysis
2. Glued Laminated beam desing
3. Design of metal dowel connection (nails)
4. Design of metal dowel connection (bolts)
5. Design of joints with connectors # 1
6. Design of joints with connectors #2

ATTENDANCE AND GRADING

Attendance:

Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in

case of absence from more than 30% of the total number of lesson will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

Grading:

Offered exam grade:

Evaluation in percents	Numeric grade
89%-100%	5
77%-88%	4
66%-76%	3
55%-65%	2
0-54%	1

READINGS AND REFERENCE MATERIALS

[1] STRUCTURAL TIMBER DESIGN to Eurocode 5 (Jack Porteous&Abdy Kermani)

SCHEDULE

	STUDY PERIOD															EXAM PERIOD				
2021/2022 FALL	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						
Practice			1		2		3		4		5		6							
Exam														X						
Signature																x				
Expected exam date																x		x		x