# General Information:

Name of Course: TIMBER STRUCTURES

Course Code: PM-RESNE162A

Semester: 7th

Number of Credits: 2

Allotment of Hours per Week: 2 Lectures /Week

Evaluation: mid-semester tasks, exam

Prerequisites: Mechanics

Responsible lecturer: Tibor BAKÓ dr., associate professor

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## General Subject Description

The goal of the semester is that the students should learn the conventional timber structures, and should be able to solve the design of the execution drawings independently.

## Examination and evaluation system

*In all cases.* *Annex 5 of the Statutes of the University of Pécs, the* ***Code of Studies and Examinations (CSE) of the University of Pécs*** *shall prevail. https://english.mik.pte.hu/codes-and-regulations*

|  |  |  |
| --- | --- | --- |
| **Exam** |  |  |
| **written exam** | design task and detail drawings (90 minutes) | 50 points |
|  |  |  |
| **Total** |  | **50 points** |

**Mode of the exanimation:**

* written exam (drawings) – 90 minutes

Grading Scale:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, good | C, avarage | D, satisfactory | F, Fail |
| Evaluation in points: | 88%-100% | 77%-87% | 66%-76% | 55%-65% | 0-54% |

## Readings and Reference Materials

**Required:** Theodor Hugues-Ludwig Steiger-Johann Weber : Timber construction

**More:** Julius Natterer-Wolfgang Winter-Thomas Herzog-Roland Schweitzer-Michael Volz : Holzbau Atlas

## Methodology

Lectures are augmented by visual presentations and demonstration models. The material is consecutive; thus no lectures should be missed.

# Detailed requirements and schedule of the Course

## Schedule

|  |  |
| --- | --- |
|  | Lecture |
| 1. | Wood as stuctural material, properties |
| 2. | History of timber structures |
| 3. | Historicalf timber structures |
| 4. | Engenering joints, timberwork details |
| 5. | Engenering slab structures |
| 6. | Engenering roof structures |
| 7. | Glued-laminated frame structures  |
| 8. | Holiday |
| 9. | Glued-laminated frame structures |
| 10. | Timber block houses, frame works |
| 11. | Non load bearing structures |
| 12. | Temporary structures |
| 13. | Non convencional structures |
| 14. | wood protection   |
| 15. | Final lecture |

## Task description

During the semester the students will be familiar with the conventional timber structures and the construction method of these structures. Conventional and engineering roof structures, slabs structures, timber frame buildings. Further matherials: basis of structural design, basis of timber design and analysis, connection design.

We reserve the right to make changes to the details of this course syllabus (date / location / clarifications), which will be communicated to the students. In case of questions and problems that arise during the semester contact the responsible lecturer or the study program coordinator.

Tibor BAKÓ dr.

responsible lecturer

Pécs, 28.08.2019