Tárgytematika / Course Description

Timber Structures

EKNB_SETA043

Tárgyfelelős neve / Teacher's name: dr. Bukovics Ádám

Félév / Semester: 2021/22/2

Beszámolási forma / Assesment: Vizsga

Tárgy heti óraszáma / Teaching hours(week): 2/1/0

Tárgy féléves óraszáma / Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The objective of the subject is to present the materials, constructions and structural behaviors of innovative and sustainable timber load bearing structures.

So the students learn the basics of the design of timber structures and learn about the basic questions and processes of their production and construction.

By completing the subject, the student is able to think in professional contexts about constructing, designing, manufacturing and installing modern timber structures.

TANTÁRGY TARTALMA / DESCRIPTION

Historical development of timber structures.

Domestic species, natural timber products.

Contemporary artificial timber products in the construction industry.

Modern timber structure construction solutions for buildings.

Surveying of laminated timber structures.

Timber bridges.

Timber-concrete structures.

Connections.

Fire effect.

Preservation of timber structures.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Assesment’s method

Preparation of homeworks

The finished homeworks must be show at least in the 14. weeks of the semester.

Written exam at the end of the semester.

Calculation of the final note:

Homeworks (maximum 100 points)

Written exam (maximum 100 points)

Grading:

0-109 points 1

110-129 points 2

130-149 points 3

150-169 points 4

170-200 points 5

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Jack Porterous, Abdy Kermani: Structural Timber Design to Eurocode 5, Wiley-Blackwell , ISBN: 978-0-470-

67500-7

Eurocode 5: Design of timber structures - Part 1-1: General -Common rules and rules for buildings

Handouts