

Tárgytematika / Course Description

Building Construction 1.

NGB_EP115_1

Tárgyfelelős neve /

Teacher's name: Molnárka Gergely

Félév / Semester: 2015/16/2

Beszámolási forma /

Assesment: Beszámoló (ötfokozatú)

Tárgy heti óraszám /

Teaching hours(week): 0/2/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

During this course Erasmus students make a dual task. The attached plan of an archetypical single-story dwelling house is to be worked out two times in details on the level of execution design. Students have to imagine and design the house in two environments as it will be developed in a typical building site of their homeland and of Hungary. The aim of the task is to compare the different constructional solutions for different environments in the EU.

TANTÁRGY TARTALMA / DESCRIPTION

A hallgató megismeri a kisebb épületek esetében alkalmazott, általános követelményeket teljesítő épületszerkezetek alkalmazását, ábrázolásmódját és a szerkezeti elemkapcsolatok működését

Introduction of the course. Technical description of the given /chosen architectural project.

The main load-bearing structures. Foundation and the waterproof barrier systems (incl. footings and plinth zone)

Vertical load-bearing structures (walls, pillars), horizontal load-bearing structures (slabs, lintels).

Opening systems (doors, windows). Chimneys and ventilation

Heat insulation needs at external structures (façades, roofs). Vapour barriers.

Roofing systems (timber structures, tiles, tinsmith works)

Consultation aiming to control the site plans and sections

Consultation aiming to control the façades.

Designation of joints (at least four joints per student)

Consultation of joints.

Final consultation.

Submission of the drawings.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Előtanulmányi követelmény:

ábrázoló geometria, lakóépület-tervezés

Ha van olyan magyar nyelvű tárgy, mellyel a tárgy ekvivalensnek tekinthető, a magyar nyelvű tárgy
descriptive geometry, design of residential houses

The conditions for credits are (1) participation in each scheduled consultation, (2) accomplishment of the exercise at least on pass degree.

The evaluation of the students' performance has a five-grade system where the highest score is 5, the lowest is 1; the pass degree is 2. During the evaluation the technical information offered by the drawings and their aesthetic quality are also taken into consideration.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

KOPPÁNY: Épületszerkezettan I-II [Building Construction; Hungarian; official]

GÁBOR: Épületszerkezettan I-IV [Building Construction; Hungarian]

FARRELL - MCCARTHY - MCFEELY: House Building Material, Spectrum Print, Dublin, 2001

CHING - WINKEL: Building Codes Illustrated, John Wiley & Sons, Hoboken, New Jersey, 2003

DEPLAZES: Constructing Architecture – Materials Processes Structures, 2005