

Tárgytematika / Course Description

BIM - Building Information Modelling

EKNB_SETA071

Tárgyfelelős neve /

Teacher's name: Ajtayné Károlyfi Kitti

Félév / Semester: 2020/21/1

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 2/0/0

Tárgy féléves óraszám /

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

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the course is to present the basics of Building Information Modeling (BIM) and 3D surveys. With the use of the ArchiCAD software students will learn the basics of using the BIM in the practice. During the course a 3D building survey will be made with the use of photogrammetry. This involves becoming familiar with generating and modifying pointclouds as well.

TANTÁRGY TARTALMA / DESCRIPTION

- 1) Introduction into BIM, discussion of homework
- 2) Introduction into ArchiCAD
- 3) Basics of ArchiCAD - model elements 1.
- 4) Basics of ArchiCAD – model elements 2.
- 5) Attributes, model views
- 6) Documentation, visualization
- 7) Interactive lists, quantity takeoff
- 8) Consultation with homework
- 9) External collaboration
- 10) BIM dimensions
- 11) Further use of BIM
- 12) 3D building survey – generating pointcloud
- 13) Using pointclouds in design process
- 14) Consultation with homework

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

The homework (a BIM model) must be done and submitted until the deadline. The mark will be determined based on the quality of the homework. The evaluation aspects of the homework will be presented during the first lesson.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and

