

Course name: Engineering Visualisation

Course code: YCRMA2FBNF

Hours per week: 0 lecture / 2 practice / 2 laboratory; Final mark/ 7 credit

Precondition for Erasmus students: 1 semester CAD

In charge: Senior Lecturer Mészáros Gergely PhD

OBJECTIVE OF THE COURSE:

Modeling buildings and their surroundings with architectural CAD software

14 WEEKS SCHEDULE

1. week: An introduction of the user interface of ArchiCAD. Menus, toolboxes and palettes.
Adjusting floor levels.
2. week: Creating slabs, walls and columns.
3. week: Creating openings (doors and windows).
4. week: Inserting stairs, rails and furniture.
5. week: Creating roofs. Dimensioning. Creating sections.
6. week: Midterm exam 1.
7. week: Creating 3D zones with zone stamps including area and volume
week: Creating column, wall, and beam with user defined profile.
8. week: Creating terrain with level curves, using the mesh tool. Using solid element operations
(especially: subtraction, and subtraction with upwards extrusion).
9. week: Inserting cameras in the model.
Creating rendered jpg pictures of the model.
3D view picture (jpg). Creating fly-through on a camera path.
10. week: Roof editing: creating pitched roof and joints of roof appropriately.
Creating user defined stair.
11. week: Creating user defined objects and user defined window.
12. week: Midterm exam 2.
13. week: Make up exams.

Assessment:

2 Midterm exams and a Homework assignment