

Tárgytematika / Course Description

Strategic planning

EKNB_KETA004

Tárgyfelelős neve /

Teacher's name: dr. Borsos Attila

Félév / Semester: 2021/22/2

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 1/1/0

Tárgy féléves óraszám /

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

OKTATÁS CÉLJA / AIM OF THE COURSE

The course aim to get deeper knowledge to able to design road and gravity pipe networks with Autodesk CIVIL 3D software.

TANTÁRGY TARTALMA / DESCRIPTION

The course is deeper introduction of Autodesk CIVI 3D software focusing roads and pipe networks:

week 1	Introduction User interface, basics settings
week 2	Importing survey data. Creating surface model. Surface styles. Operations with surfaces
week 3	Feature lines: create, how to use, operations with
week 4	Alignment design tools, parallel alignments, widening Creating and modifying Alignment labels and label sets
week 5	Profile design tools, surface profile tool. Profile and profile view options, labels and label sets. Object projection to profile view
week 6	Sample cross section: create, modify, introductions of basic subassemblies Creation of basic custom subassembly with <i>Autodesk Subassembly Composer</i>
week 7	Sample lines, cross stions, section views and view groups. Labels, label sets and projection of objects to profile view
week 8	Calculation of superelevation, edit superelevation, labels additional tools
week 9	Building corridors, baselines, regions, targets and frequencies
week 10	Creating of basic intersections. Tools, behaviours, labels
week 11	Creating of gravity pipe networks. Tools, behaviours, labels
week 12	Modifying pipe network elements (pipe and structure), creating custom size elements.
week 13	Preparing for printing. Baics of Paper Space, page setups, export to PDF
week 14	Pre exam

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Exam based on the 13 lecture materials. You have to complete short task with CIVL3D based on the given data and requirements.

Final mark: up to 50 %: 1, 51-64 %: 2, 65-74 %: 3, 75-84 %: 4, from 85 % 5.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Compulsory reading:

- pdf files of the presentations and further reading on the Sze-learning site
- <http://help.autodesk.com/view/CIV3D/2020/HUN/>

Recommended reading:

- <https://www.youtube.com/c/JeffBartelsCAD/videos>
- <https://www.youtube.com/user/VARINEXGIS/videos>