



FACULTY: ENVIRONMENTAL ENGINEERING AND ENERGY

COURSE TITLE: Computer modelling (REVIT/FLUENT)

Number of contact hours: 50

Duration: 1 semester (spring)

ECTS credits: 4

Programme description:

The course introduces the advanced computer methods in Environmental Engineering. Revit as an example of BIM concept is presented. The course offers basic knowledge of CFD (Computational Fluid Dynamics) simulations altogether with some example calculations.

The main topics of the course are listed below:

- Introduction to BIM concept
- Indoor installation design with Revit
- Building performance analysis
- Simulations of heat transfer through a building thermal bridge
- Simulations of water flow in a pipe

Course type: lectures (6), computer lab. (44)

Literature:

Assessment method:

Lecturer: PhD Eng Jarosław Müller, PhD Eng Agnieszka Lechowska

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