

IDENTIFICATION

Course code : E2CP3B4
ECTS : 1

DURATION

Lectures : 4
Tutorial classes : 0
Labs : 4
Total : 8

Project :
Personnal work :

ASSESSMENT

1 Written exam (2h) + 1 Lab report

TEACHING MATERIALS

LANGUAGE

English

CONTACT

Jean CASTAING LASVIGNOTTES
jean.castaing.lasvignottes@univ-reunion.fr

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UE : BATIMENT-ENERGIE

COURSE : 3D Modeling

SCOPE OF THE COURSE

OBJECTIVES

Become familiar with a 3D modeling tool (e.g., SketchUp) to prepare for Dynamic Thermal Simulation

COMPETENCE AND SKILLS

Be able to model all or part of a building in 3D for subsequent thermal simulation

PROGRAM

1. Familiarization with a 3D modeling software dedicated to buildings (interface, basic tools, project organization).
2. Importing or creating the floor plan : defining layout, levels, and main volumes.
3. Modeling walls : walls, floors, roofs, openings ; assigning materials and thermal properties.
4. Defining thermal zones : segmenting spaces based on usage and thermal exchanges.
5. Preparing the model for simulation : checking geometric consistency, closing volumes, exporting to a compatible format.

BIBLIOGRAPHY

REQUIREMENTS

Technical drawing