

IDENTIFICATION

Course code : ESI-SPI-CI-BE4-S7-UE2-EC1
ECTS : 1

DURATION

Lectures :	4
Tutorial classes :	8
Labs :	4
Total :	16

Project :
Personnal work :

ASSESSMENT

The final grade includes : - Continuous assessment - POE lab work grade

TEACHING MATERIALS

PowerPoint presentations

LANGUAGE

English

CONTACT

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UE : UE7-QEB

COURSE : Survey Management and Occupancy Mode Evaluation

SCOPE OF THE COURSE

OBJECTIVES

The objectives of this course are :
To know how to conduct an evaluation in occupancy mode.

COMPETENCE AND SKILLS

To be able to conduct an occupancy mode evaluation of buildings (assessment of energy performance and thermal comfort).

PROGRAM

POST OCCUPANCY EVALUATION :

- Presentation of various POE methods.
- Case study on several existing buildings.

PRACTICAL WORK :

- Occupancy mode evaluation of a positive-energy building. Comfort questionnaires are completed by users. Concurrently, comfort conditions are measured in classrooms and offices.
- Monitoring of energy consumption and analysis of a positive-energy building by usage type.

BIBLIOGRAPHY

Garde F. et al (2017). Solution Sets for Net-Zero Energy Buildings : Feedback from 30 Buildings worldwide. Wiley and son. ISBN :9783433030721

REQUIREMENTS

- S6 - Heat transfers. Thermal load balance of a building. Comfort and design in tropical environments. Sketchup.
- S8 - Software tools in energy simulation. Solar Renewable Energy.
- S9 - Software tools in energy simulation 2.