

IDENTIFICATION

Course code : E3B65EF4
ECTS : 0

DURATION

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

Project :
Personnal work :

ASSESSMENT

Skills will be assessed based on the elements provided in the deliverable, which will be specified in advance to the engineering students.

TEACHING MATERIALS

All documents used during the teaching sessions or resources mobilized. If necessary, additional documentary references will be provided.

LANGUAGE

English

CONTACT

Modifié le : 3 août 2026

UE6.3-EFFI

SAÉ

SCOPE OF THE CHALLENGE

WORKING SITUATION

Diagnose and assess needs and perform preliminary sizing of simple systems

COMPETENCES AND LEVEL ASSESSED

1. Perform thermal, energy and carbon balances
2. Conduct an audit and analyze a consumption structure (environment, water, energy) in a tertiary, industrial or commercial sector
3. Select and pre-size appropriate systems
4. Understand regulatory frameworks and energy challenges (new construction/renovation)

EXPECTED OUTPUTS

- DELIVERABLES
 - Calculation sheet for balance
 - 1 Calculation sheet per pre-sizing
 - 1 Comparison tool
 - 1 Scenario analysis
 - Final written report
 - Presentation to the client

RESOURCES

- A professional (Client)
- Energy teacher
- Systems teacher
- Teacher in engineering tools