

IDENTIFICATION

Course code : ESI-SPI-CI-BE4-S8-UE2-EC1
ECTS : 1.5

DURATION

Lectures : 4
Tutorial classes : 8
Labs : 0
Total : 12

Project :
Personnal work :

ASSESSMENT

1 case study grade. Assessment is based on case studies focusing on the analysis of a building's compliance with various labels (PERENE/RT2ADOM/LEED or others). The required deliverable is an analysis report, supplemented by an oral presentation in English or French.

TEACHING MATERIALS

Handout

LANGUAGE

English

CONTACT

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UE : UE8-QEB

COURSE : Thermal regulations and labels

SCOPE OF THE COURSE

OBJECTIVES

Understanding of regulations and passive construction benchmarks in Réunion, in tropical climates, and more broadly worldwide
Practical experience with PERENE / RTAA DOM

COMPETENCE AND SKILLS

Ability to design and/or analyze a building project in relation to regulatory requirements or label performance criteria.

PROGRAM

Thermal basics recap (thermal resistance, solar factor of opaque walls, solar factor of glazed walls)
Regulations and labels applicable in the French overseas departments (DOM) :

- RT2ADOM ;
- The PERENE tool ;
- CERQUAL DOM certification ;
- ECODOM+ (French Guiana).

Various thermal labels in tropical environments :

- In France : CERQUAL, Certivea, BBC Effinergie, the HQE approach ;
- Internationally : LEED, BREEAM, Green Star, NABERS, etc. ;
- Presentation of Green Building Councils ;
- Advantages and disadvantages of each label.

BIBLIOGRAPHY

RTAA DOM regulation
PERENE benchmark
ECODOM+ benchmark
MAYENERGIE+ benchmark
CERQUAL DOM benchmark
LEED, BREEAM regulations

REQUIREMENTS

No prerequisites required