

IDENTIFICATION

Course code : ESI-SPI-CI-BE4-S8-UE2-EC6
ECTS : 1

DURATION

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

Project :
Personnal work :

ASSESSMENT

1 project grade

TEACHING MATERIALS

LANGUAGE

English

CONTACT

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UE : UE8-QEB

COURSE : Workshop architecture

SCOPE OF THE COURSE

OBJECTIVES

Group work with a mix of engineering students and architecture students on a project over one week.

The groups will be in a situation of submitting a design competition entry (Moe), particularly developing aspects related to environmental quality.

This project is an opportunity to assess the acquisition of the various knowledge and skills acquired throughout the domain related to building design in a tropical environment.

COMPETENCE AND SKILLS

To be able to work in a team and collaborate with architecture students on a design project (building or district).

PROGRAM

Course plan : Presentation of the project programme developed in partnership ESIROI/ENSAM

Division into subgroups (depending on numbers) and consideration of different aspects :

- Building orientation and urban forms in relation to climate and urban constraints (taking into account the context : PLU, topography, landscape) ;
- Optimisation of forms with consideration for urban aerodynamics ;
- Optimisation of the building envelope (solar protection, cross-ventilation, natural lighting, resource management, maintenance) ;
- Economic and social impact of the built environment ;
- Enhancement of local, natural and human resources ;
- Consideration of architectural and urban data within the framework of an Engineer/Architect teamwork.
- Final submission on the

BIBLIOGRAPHY

REQUIREMENTS

Heat transfer, Fluid mechanics, Thermodynamics, Software tools in energy simulation 1.