

Buildings Information Modeling



SCHOOL

Polytech Graduate School of
Engineering



CAMPUS

Belle-Beille



LEVEL

Engineering 3rd year



OPEN TO EXCHANGE STUDENTS

Yes



SEMESTER

Spring (S2)

- > **Degree course:** Building and Safety
- > **Teaching unit:** Building and Civil Engineering
- > **Course language:** English
- > **Duration (hours):** 24
- > **ECTS:** 3
- > **Teacher(s):** Thierry CAPELLE

> Assessment:

- Continuous assessment
- Final exam

> Teaching methods:

- | | | | |
|--|----|-------|-------------------------------------|
| <input checked="" type="checkbox"/> Lecture course | 4 | hours | <input type="checkbox"/> Case study |
| <input type="checkbox"/> Tutorial course | | hours | <input type="checkbox"/> Project |
| <input checked="" type="checkbox"/> Practical work | 20 | hours | |

COURSE DESCRIPTION

Architectural modeling

- Components
- Families and Profiles
- Components, surfaces
- Presentation
- Nomenclatures, annotations
- Heating and cooling ratio

MEP Project

- Facilities
- System definition
- Control and dimensioning

Structural model

- Structural frame, framework

OBJECTIVES

To be capable of composing a digital model of the building with its three architectural, structural and fluid components.
To be able to generate heating ratios, pressure drops in the ducts.

PREREQUISITES

technical drawing

SELECTIVE BIBLIOGRAPHY

Dessin technique et lecture de plan: bâtiment -gros oeuvre / H. Renaud Paris : Foucher, 1989
Dessin technique, lecture de plan: bâtiment - béton armé / H. Renaud Paris : Foucher, 1996
Support de formation Bureau d'études Aricad 2015: « Autodesk Revit 2016 : Concevez et Construisez vos projets BIM »
Normes NF P 02-001, 02-003, 02-005.