

## Semester 5

### Language and human Sciences 1 - 5 ECTS

English  
Second language (optional)  
Society and environmental responsibility  
Business organisation  
Accountancy  
Sport activities

### Mathematics - 5 ECTS

Numerical analysis 1  
Probabilities – statistics  
Applied analysis

### Building Engineering 1 - 4 ECTS

Technologies and processes of structural work 1  
Technologies and processes of sub-trade 1  
Topography

### Architectural design 1 - 6 ECTS

Architectural scale  
Urban scale  
Reading and analysis of plans  
Digital model - CAD 1

### Engineering and construction economics - 4 ECTS

Introduction to project management  
Company price studies  
Project management economics

### Structural Mechanics 1 - 6 ECTS

Material resistance  
Mechanics of systems 1 (static)  
Mechanism design 1  
Soil mechanics

## Semester 6

### Language and human Sciences 2 - 5 ECTS

English  
Second language (optional)  
Individual communication  
Health and safety at work  
Engineer's carrier  
Sport activities

### Innovation - 3 ECTS

Innovation and creativity project

### Digital Modeling and Information - 5 ECTS

Modeling and Object Oriented Programming (OOP)  
Digital Model - CAD 2  
GIS1: Geographic Information Systems

### Building Engineering 2 - 3 ECTS

Technologies and processes of sub-trade 2  
Diagnosis and Pathologies of the buildings

### Structural Mechanics 2 - 4 ECTS

Structural calculations 2  
Finite Element Method  
Reinforced Concrete Calculation

### Building Project Management and Engineering - 5 ECTS

Building Information and Communication Technologies  
Building Project Management Methods  
Quality of use  
Construction law

### Building Energy - 5 ECTS

Heat Transfer in Buildings  
Solar Energy  
Technical Installations of the Building

## Semester 7

### Internship - 30 ECTS

## Semester 8

### Language and human Sciences - 6 ECTS

English  
Second language (optional)  
Group communication  
Intellectual property.  
Entrepreneurship  
Sport activities

### Applied Physics - 4 ECTS

Building Acoustics  
Building Lighting  
Home Automation

### Programming and design - 3 ECTS

Programming of real estate operations  
BIM project and functional analysis-Terms and conditions

### Digital model and Building engineering - 4 ECTS

Structure design  
Digital synthesis in design  
Digital Model and energy efficiency

### Project owner - 4 ECTS

Public Project Management and Programming  
Project Management Law  
Financial arrangement

### Site management and engineering - 4 ECTS

Construction method  
Scheduling-Planning  
Logistics

### Architectural design 2 - 5 ECTS

Architectural analysis  
Critical history of architecture  
Architecture workshop

## Semester 9

### Language and human Sciences - 4 ECTS

English  
Second language (optional)  
Employment laws  
Project management  
Sport activities

### Plateau-Project - 6 ECTS

### Analysis and management of territories - 4 ECTS

Spatial planning  
Urban planning  
Urban sociology  
GIS 2 - Geographic Information Systems 2

### Digital Model and Architectural Design - 4 ECTS

Architectural Equipment  
Architecture workshop 2

### Building Digital Model and Coordination - 4 ECTS

Building Digital Model: Site Preparation  
Building Digital Model: Project Planning  
Building Digital Model: Site Management and Monitoring

### Building Digital Model and Operation - 5 ECTS

Building digital model and maintenance  
Building digital model and technical design  
Technical management of real estate assets

### “Elective courses” - 3 ECTS

Elective course n°1  
Elective course n°2

## Semester 10

### Final internship - 30 ECTS