

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