

**FACULTY
OF
CIVIL
ENGINEERING
AND
ARCHITECTURE**

- Courses from the Integrated program
ARCHITECTURE
- Courses from the Bachelor's degree program
CIVIL ENGINEERING
- Courses from the Master's degree programs
CIVIL ENGINEERING

**Courses from the Integrated program
ARCHITECTURE**

Course code	Course title	ECTS Credits	Semester
BLOCK A (1 st year)			
H312B121	Introduction to Architecture	6	Autumn
H312B124	Fundamentals of Architectural Design	12	
P175B164	Computer-Aided Architectural Design 1	3	
T150B216	Architectural Materials	3	
H310B123	History of Architecture	6	Spring
H312B125	Residential Architecture	12	
P175B159	Computer-aided Architectural Design 2	3	
T230B120	Structures of Dwelling Houses	3	
If modules are selected from different blocks (A, B, C and etc.), timetables may clash			
BLOCK B (2nd year)			
H312B126	Space Modelling	3	Autumn
T230B025	Building Physics	3	
T230B222	Structures of Non-residential Buildings and Engineering	3	
T240B139	Architecture of Public Buildings 1	12	
T240B137	Typology of Architectural Spaces	3	
S110B103	Spatial Legislation	3	Spring
H313B103	Theory of Architecture	6	
T220B136	Building Energy Performance Predictions and Design	6	
T230B216	Building Information Modelling	3	
T240B014	Architecture of Public Buildings 2	12	
If modules are selected from different blocks (A, B, C and etc.), timetables may clash			
BLOCK C (3rd year)			
H312B120	Sustainable Architecture	3	Autumn
H314B112	Cultural Heritage	3	
T230B213	Construction Planning and Project Management	6	
H313B104	Critical Analysis of Architecture	6	Spring
T230B189	Economics of Spatial Decisions	3	
If modules are selected from different blocks (A, B, C and etc.), timetables may clash			

4th and 5th year – Master level

S240M104	Urban Planning 1	12	Autumn
S240M105	History of Urbanism	6	
S240M106	Space Syntax	6	
S240M011	Sociology of Spaces	6	

S240M107	Urban Planning 2	12	Spring
S240M108	Urban Theory	6	
S240M109	Sustainable Urbanism	6	
If modules are selected from different blocks (A, B, C and etc.), timetables may clash			

Elective Courses from the Integrated program
ARCHITECTURE

BLOCK B (2nd year)

H311B138	Drawing	6	Autumn
P175B174	Architectural Visualization	6	
P175B175	Digital Modelling Methods for Buildings	6	

Courses will be delivered only if a sufficient number of students enroll

4th year – Master level

P175M110	Virtual Reality Generation	6	Autumn
S240M110	Territorial Systems	6	

Courses will be delivered only if a sufficient number of students enroll

P175M111	Virtual Reality Activation	6	Spring
P175M112	Geographic Information Systems for Territory Planning	6	

Courses will be delivered only if a sufficient number of students enroll

Courses from the Bachelor's degree program
CIVIL ENGINEERING

Course code	Course title	ECTS Credits	Semester
BLOCK B (2 nd year)			
T230B025	Building Physics	6	Autumn
T220B114	Basics of Fluid Mechanics	6	
T240B142	Architecture and Structures of Non-Residential Buildings	6	
P515B101	Engineering Geodesy and Training Practice	6	Spring
T220B612	Building Services Systems	6	
T230B502	Structural Mechanics 1	6	
If modules are selected from different blocks (A, B, C and etc.), timetables may clash			
BLOCK C (3 rd year)			
P175B176	Programming Basics for Civil Engineers	6	Autumn
S180B101	Construction Economics	3	
T190B138	Electric Power Systems in Construction	3	
T230B016	Reinforced Concrete and Masonry Structures 1	3	
T230B224	Foundation Structures	3	
T230B225	Engineering and Special Purpose Buildings	6	
T230B170	Technology of Special Construction and Enginery	6	
T230B216	Building Information Modelling	3	Spring
T230B159	Metal and Timber Structures 1	3	
T230B232	Monolithic and Masonry Construction Technologies	6	
T230B233	Information Modelling of Building Construction	6	
If modules are selected from different blocks (A, B, C and etc.), timetables may clash			
BLOCK D (4 th year)			
T230B217	Human, Building and Environmental Safety in Construction	6	Autumn
T230B170	Technology of Special Construction and Enginery	6	
T230B213	Construction Planning and Project Management	6	

Architecture program modules suitable for Civil Engineering students:

T230B222	Structures of Non-residential Buildings and Engineering	3	Autumn
T230B213	Construction Planning and Project Management	6	
T230B120	Structures of Dwelling Houses	3	Spring
S110B103	Spatial Legislation	3	
T220B136	Building Energy Performance Predictions and Design	6	
T230B189	Economics of Spatial Decisions	3	

**Courses from the Master's degree program
CONSTRUCTION MANAGEMENT**

Course code	Course title	ECTS Credits	Semester
T230M629	Construction Contracts	6	Autumn
T230M001	Construction Project Management	6	
T230M171	Digitization of Construction Processes	6	
T230M151	Geoinformation Technologies in Construction	6	
T230M173	Construction Logistics and Management	6	Spring
T230M135	Durability and Life Cycle of the Structure	6	
T230M010	Quality Management in Construction	6	

**Courses from the Master's degree program
STRUCTURAL AND BUILDING PRODUCTS ENGINEERING**

Course code	Course title	ECTS Credits	Semester
T230M147	Advanced Reinforced Concrete Structures	6	Autumn
T230M180	Finite Element Method for Structural Analysis	6	
T230M425	Research Methods of Building Products and Structures	6	
T230M181	Composite and Wooden Structures	6	Spring
T230M135	Durability and Life Cycle of the Structure	6	
T230M134	Research of Reliability and Strengthening of Building Structures	6	

**Courses from the Master's degree program
SUSTAINABLE AND ENERGY EFFICIENT BUILDINGS**

Course code	Course title	ECTS Credits	Semester
T230M176	Building Energy Demand Modelling	6	Autumn
T230M175	Energy Production and Supply	6	
T220M109	Indoor Environmental Assessment and Design	6	
T230M174	Sustainable Buildings and Cities	6	
T230M178	Facilities Operation and Maintenance	6	Spring
T230M179	Intelligent Heating, Ventilation and Air Conditioning Systems	6	
T230M177	Sustainable Water Management	6	

Elective Courses from all Master's degree programs

T230M183	Building Data Analytics and Machine Learning	6	Spring
T230M182	Modular Construction and Regenerative Design	6	
T230M222	Waste Management and Recycling Technology	6	