

**FACULTY
OF
CIVIL
ENGINEERING
AND
ARCHITECTURE**

- Courses from the Integrated programme
ARCHITECTURE
- Courses from the Bachelor's degree programme
CIVIL ENGINEERING
- Courses from the Master's degree programmes
CIVIL ENGINEERING

**Courses from the Integrated programme
ARCHITECTURE**

Course code	Course title	ECTS Credits	Semester
BLOCK A (1st year)			
H312B121	Introduction to Architecture	6	Autumn
H312B124	Fundamentals of Architectural Design	12	
P175B164	Computer-Aided Architectural Design 1	3	
T150B216	Architectural Materials	3	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
H310B123	History of Architecture	6	Spring
H312B125	Residential Architecture	12	
P175B159	Computer-aided Architectural Design 2	3	
T230B120	Structures of Dwelling Houses	3	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
BLOCK B (2nd year)			
H312B126	Space Modelling	3	Autumn
T230B025	Building Physics	3	
T230B222	Structures of Non-residential Buildings and Engineering Entities	3	
T240B139	Architecture of Public Buildings 1	12	
T240B137	Typology of Architectural Spaces	3	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
H313B103	Theory of Architecture	6	Spring
S110B103	Spatial Legislation	3	
T220B136	Building Energy Performance Predictions and Design	6	
T230B216	Building Information Modelling	3	
T240B014	Architecture of Public Buildings 2	12	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
BLOCK C (3rd year)			
H312B120	Sustainable Architecture	3	Autumn
H314B112	Cultural Heritage	3	
PR00B157	Joint Project	6	
T240B140	Architecture of Building Complexes	12	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
H313B104	Critical Analysis of Architecture	6	Spring
T230B189	Economics of Spatial Decisions	3	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
BLOCK D (4th year – Master level)			
S240M104	Urban Planning 1	12	Autumn
S240M105	History of Urbanism	6	
S240M106	Space Syntax	6	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			

S240M107	Urban Planning 2	12	Spring
S240M108	Urban Theory	6	
S240M109	Sustainable Urbanism	6	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
BLOCK E (5th year – Master level)			
S240M011	Sociology of Spaces	6	Autumn
K110M635	Economics and Management of Architectural Design	6	
S240M111	Resilient Urban Futures	6	
T240M363	Digital Sustainable Design Methods	6	
T240M001	Methods of Architectural Renovation	6	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			

**Elective Courses from the Integrated programme
ARCHITECTURE**

BLOCK B (2nd year)			
H311B138	Drawing	6	Autumn
P175B174	Architectural Visualization	6	
P175B175	Digital Modelling Methods for Buildings	6	
<i>Courses will be delivered only if a sufficient number of students enrol</i>			
BLOCK C (3rd year)			
P175B154	Parametric Installation	6	Autumn
T230B112	Construction Technology and Organization	6	
<i>Courses will be delivered only if a sufficient number of students enrol</i>			
BLOCK D (4th year – Master level)			
P175M110	Virtual Reality Generation	6	Autumn
S240M110	Territorial Systems	6	
<i>Courses will be delivered only if a sufficient number of students enrol</i>			
P175M111	Virtual Reality Activation	6	Spring
P175M112	Geographic Information Systems for Territory Planning	6	
<i>Courses will be delivered only if a sufficient number of students enrol</i>			

**Courses from the Bachelor's degree programme
CIVIL ENGINEERING**

Course code	Course title	ECTS Credits	Semester
BLOCK B (2nd year)			
T230B025	Building Physics	3	Autumn
P160B003	Theory of Probability and Statistics	6	
S110B034	Building Regulations	3	
T210B209	Mechanics of Materials	6	
P470B001	Geology	3	
T240B142	Architecture and Structures of Non-Residential Buildings	6	
T220B114	Basics of Fluid Mechanics	3	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
P515B101	Engineering Geodesy and Training Practice	6	Spring
T220B612	Building Services Systems	6	
T230B112	Construction Technology and Organization	6	
T230B502	Structural Mechanics 1	6	
T220B007	Soil Mechanics	3	
T220B137	Basics of Urbanism	3	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
BLOCK C (3rd year)			
P175B145	Introduction to Programming for Engineers	6	Autumn
S180B101	Construction Economics	3	
T230B160	Fire Safety	3	
T230B206	Reinforced Concrete and Masonry Structures 1	6	
T230B212	Soil Mechanics and Foundations	6	
T150B215	Innovative Building Materials and Products	6	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			
T230B216	Building Information Modelling	3	Spring
T230B208	Metal and Timber Structures	6	
T230B144	Technology of Monolithic Construction	3	
T230B221	Information Modelling of Building Construction and Product Manufacturing	6	
T220B130	Hydraulic Structures	6	
T220B120	Basics of Urbanism and Transport Structures	6	
<i>If modules are selected from different blocks (A, B, C and etc.), timetables may clash</i>			

**Courses from the Master's degree programme
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 programme
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 programme
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 programmes

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