ktu kaunas university of technology 1922

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 (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	
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	
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	
PR00B157	Joint Project	6	
T240B140	Architecture of Building Complexes	12	
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			

BLOCK D (4th year – Master level)			
S240M104	Urban Planning 1	12	Autumn
S240M105	History of Urbanism	6	
S240M106	Space Syntax	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			
BLOCK D (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			

* The Module "Architecture of Public Buildings 2" will be taught to a mixed group of Lithuanian and international students. All materials, individual consultations, and assessments will be provided in English, though Lithuanian will be the language used during classroom discussions.

Course code	Course title	ECTS Credits	Semester
	Courses from the Bachelor's degree program CIVIL ENGINEERING		
	BLOCK B (2nd year)		
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	
	If modules are selected from different blocks (A, B, C and etc.), timetables may clash		
	BLOCK C (3rd 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
T230B208	Metal and Timber Structures	6	
T230B144	Technology of Monolithic Construction	3	
T230B221	Information Modelling of Building Construction and Product Manufacturing	6	
PR00B251	Product Development Project	12	
	If modules are selected from different blocks (A, B, C and etc.), timetables may clash		

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	