

Study plan

Name of study plan: Architektura a stavitelství, zaměřený Architektura a urbanismus

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Architecture and Building Sciences

Type of study: Follow-up master full-time

Required credits: 120

Elective courses credits: 0

Sum of credits in the plan: 120

Note on the plan: tento studijní plán platí od akademického roku 2019/20

Name of the block: Compulsory courses

Minimal number of credits of the block: 33

The role of the block: Z

Code of the group: NA20190101

Name of the group: Architektura a stavitelství, povinné předměty, 1. semestr

Requirement credits in the group: In this group you have to gain at least 11 credits (at most 0)

Requirement courses in the group: In this group you have to complete at least 2 courses

Credits in the group: 11

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
124HRRB	Historical structures and restoration of buildings Jiří Witzany, Tomáš Hejka, Radek Zígler, Klára Kroftová Klára Kroftová	Z,ZK	7	4P+2C	Z	z
125SYB	Building Systems Karel Kabele, Jan Tywoniak Karel Kabele Karel Kabele (Gar.)	ZK	4	4P	Z	z

Characteristics of the courses of this group of Study Plan: Code=NA20190101 Name=Architektura a stavitelství, povinné předměty, 1. semestr

124HRRB	Historical structures and restoration of buildings	Z,ZK	7
In the lecture series, basic information about the structure and current tendencies of monument care in the Czech Republic, the history of monument care and the development of views on the protection of monuments (including industrial heritage) up to the present are explained. Approaches to the restoration of historical buildings are shown on selected examples. Furthermore, the lectures are focused on topics related to the own protection of historical and heritage-protected buildings. In particular, these are defects and failures of buildings, load effects and influences from the point of view of load history; non-force effects and influences, effects of forced deformation; durability and reliability; mechanical, physical, chemical degradation and corrosion processes; failures, reconstruction and rehabilitation of foundation structures, brick structures, concrete structures (reinforced concrete), prefabricated structures, wooden structures of buildings, protection of buildings against increased humidity and diagnostics of buildings.			
125SYB	Building Systems	ZK	4
Multi-criteria analysis of the requirements for the indoor environment and the function of the systems in different types of buildings and plants and optimization criteria for the design of energy and ecological building systems. Relationships between building technical equipment and the building. Integrated view of conceptual solutions in different building types in terms of indoor systems and building design. E.g. office buildings, residential buildings, halls, shopping centres, cultural centres, industrial buildings, sports buildings, family houses, passive etc. The audience will be introduced to the requirements for the indoor environment, the characteristic elements of energy and environmental building systems in relation to the structural design for the building type.			

Code of the group: NA20190200

Name of the group: Architektura a stavitelství, povinné předměty, 2. semestr

Requirement credits in the group: In this group you have to gain at least 13 credits (at most 0)

Requirement courses in the group: In this group you have to complete at least 3 courses

Credits in the group: 13

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
105ESSO	Aesthetic and Sociology <i>Jitka Cirklová, Monika Dobiášová Jitka Cirklová Jitka Cirklová (Gar.)</i>	Z	3	2P+1C	L	z
127UVI	Urban Planning and Public Infrastructure <i>Vojtěch Kolařík, Václav Jetel, Ivan Kaplan, Jan Cihlář Václav Jetel Ivan Kaplan (Gar.)</i>	ZK	5	4P	L	z
129SAR	Contemporary Architecture <i>Lenka Popelová, Petr Urlich, David Šašný, Klára Čiesarová, Nikolay Brankov, Radomíra Sedláková Lenka Popelová Lenka Popelová (Gar.)</i>	Z,ZK	5	2P+2C	L	z

Characteristics of the courses of this group of Study Plan: Code=NA20190200 Name=Architektura a stavitelství, povinné p edm ty, 2. semestr

105ESSO	Aesthetic and Sociology	Z	3
The aim of the course is to introduce students to contemporary aesthetics as a discipline dealing with the effect of artistic and non-artistic objects on their recipients. The lectures will be based on the premise that contemporary aesthetics is characterized by a deepening distance from traditional aesthetics (based on the concepts of taste, beauty, nobility and genius, on the relationship between aesthetics and art, ethics or nature). We will also focus on contemporary topics such as aesthetics in the field of mass and digital media, everyday life, public space and sports. Students will be introduced to both theoretical texts in the field of sociology, modern art theory, and concrete projects (in the field of painting, sculpture, theater, film and music). Continuous consideration will be given to the sociological aspect of aesthetics, i.e. how the way in which artistic artifacts are perceived and created is reflected in the fact that the given artifact is always created and perceived within a certain community or a certain community.			
127UVI	Urban Planning and Public Infrastructure	ZK	5
As part of the lectures, the listener will learn about the basic activities and skills of a city engineer, city architect, urban planner and spatial planner in the field of public infrastructure, which is central to the processing of spatial planning tools according to the Building Act. For these purposes, the lectures are based on interpretation combined with a professional description of individual components of public infrastructure: transport infrastructure, technical infrastructure, civic equipment and public spaces.			
129SAR	Contemporary Architecture	Z,ZK	5
This course deals with contemporary architecture and its theory. The aim of the course is to get an overview of the most famous theoretical texts/sources that shaped the opinion on the form of architecture from the second half of the 20th century until today.			

Code of the group: NA20190301

Name of the group: Architektura a stavitelství, povinné p edm ty, 3. semestr

Requirement credits in the group: In this group you have to gain at least 9 credits (at most 0)

Requirement courses in the group: In this group you have to complete at least 2 courses

Credits in the group: 9

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
127KAZP	Landscape Architecture and Environment <i>Simona Vondráková, Jiří Kupka, Josef Krása, Tomáš Dostál Jiří Kupka (Gar.)</i>	Z,ZK	5	3P+2C	Z	z
129UPP	Introduction to professional practise <i>Jiří Šašný, Petr Lédl, Mikuláš Hulec, Jaroslav Daňha Petr Lédl Petr Lédl (Gar.)</i>	Z,ZK	4	2P+2C	Z	z

Characteristics of the courses of this group of Study Plan: Code=NA20190301 Name=Architektura a stavitelství, povinné p edm ty, 3. semestr

127KAZP	Landscape Architecture and Environment	Z,ZK	5
The course is an introduction to some aspects of landscape architecture and environmental ecology and conservation. Teaching is provided by the Department of Urban Design, Town and Regional Planning (K127) and Dep. of Landscape Water Conservation (K143). Each department provides a block of lectures and a part of practicals. The lectures cover the landscape, its character and landscape character, the cultural and historical values of the landscape and their protection, landscape and greenery in the urban environment, the development of landscape and urban greenery from the Middle Ages to the present, including the ideological principles of contemporary landscape design and the principles of garden design, all within the necessary legislative framework. The second thematic block deals with the use of GIS for the assessment of landscape processes, introduces geoportals with landscape data, discusses the development of the cadastre, land management, landscape care, the importance of agriculture, surface water protection in the context of landscape care, rainfall-runoff relationships, floods and droughts. In the exercises, both thematic blocks are deepened by analyses of specific areas.			
129UPP	Introduction to professional practise	Z,ZK	4
The subject Introduction to professional practice aims to introduce students to the practical activities of the work of an architect and related performances. Above all, this is about other design work and associated services, connected with the legislative process, the course of construction management and the implementation of the building.			

Name of the block: Povinné p edm ty zam ení

Minimal number of credits of the block: 57

The role of the block: PZ

Code of the group: NA20190002_1

Name of the group: zam ení Architektura a urbanismus, p edm ty zam ení

Requirement credits in the group: In this group you have to gain at least 57 credits

Requirement courses in the group: In this group you have to complete at least 7 courses

Credits in the group: 57

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
127AMG1	Master Urban Studio 1 <i>Ivan Kaplan, Jiří Kupka, Petr Durdík, Karin Dvořáková, Daniel Stojan Jiří Kupka Daniel Stojan (Gar.)</i>	KZ	14	12C	Z	PZ
127USRM	Urban Structures and Urban Development <i>Jiří Kupka, Jiří Kugl, Jan Mužík Jan Mužík Jan Mužík (Gar.)</i>	ZK	5	4P	Z	PZ
127ATUR	Urban Studio <i>Kateřina Štréblová Hronovská Václav Jetel Václav Jetel (Gar.)</i>	KZ	9	7C	L	PZ
127UTS	Urban Design and Information Systems <i>Václav Jetel, Jan Cihlá, František Pospíšil, Marek Janatka František Pospíšil Václav Jetel (Gar.)</i>	Z,ZK	5	2P+2C	L	PZ
127UKKO	Urban and Landscape Design <i>Jiří Kupka, Zuzana Pešková, Ivan Vorel Jiří Kupka Zuzana Pešková (Gar.)</i>	ZK	3	2P	L	PZ
127AMG2	Master Urban Studio 2 <i>Ivan Kaplan, Jiří Kupka, Petr Durdík, Daniel Stojan, Jan Mužík Jiří Kupka Daniel Stojan (Gar.)</i>	KZ	16	12C	Z	PZ
127NUKP	Town and Country Planning Instruments <i>Simona Vondráková, Jiří Kupka, Petr Durdík, František Pospíšil Jiří Kupka Jiří Kupka (Gar.)</i>	ZK	5	3P+1C	Z	PZ

Characteristics of the courses of this group of Study Plan: Code=NA20190002_1 Name=zam ení Architektura a urbanismus, p edm ty zam ení

127AMG1	Master Urban Studio 1	KZ	14
The first comprehensive design course in urban design as an application of theoretical preparation on a specific territory. Teaching of surveys and analyses, selection of research, variant preparation, defence and refinement of the design, technical and specific accompaniments, balance and visualization, final presentation at the exhibition.			
127USRM	Urban Structures and Urban Development	ZK	5
The course deals with the characteristic features of the city structure of the Czech Republic, individual types of human settlements, their importance in the structure and their urban structure and form. Students will learn to identify the characteristic features of cities and villages, their urban uniqueness, arrangement of spatial structure, functional composition and operational relationships. Analyze their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid to the forms of urban development, i.e. both their overall growth and the regeneration or transformation of their existing parts. It also deals with the structure and composition of public areas of cities and landscapes, their transformations, and the protection of historical, cultural and urban values.			
127ATUR	Urban Studio	KZ	9
Design studio focused on the creation - development and revitalization - of public spaces or systems of public spaces			
127UTS	Urban Design and Information Systems	Z,ZK	5
In the lectures, the course describes students with current trends in urban design and the use of geographic information systems to process spatial planning tools. In the exercises, students acquire practical skills in processing real tasks that are solved by spatial planners.			
127UKKO	Urban and Landscape Design	ZK	3
The course introduces selected chapters from urban and landscape composition and the theory of urbanism as a basis for urban and landscape design (city image, city environment, perception, landscape composition, composed landscape, cultural landmarks, the phenomenon of the garden in the historical context, etc.). The aim of the course is a comprehensive view of urban and landscape design as a creation of the environment. A theoretical basis and a sound analysis of existing towns and landscapes are subsequently a prerequisite for successful practical design. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are complemented by examples from history and examples of various urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), aspects of their planning (regulatory commissions) and some specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited external speakers.			
127AMG2	Master Urban Studio 2	KZ	16
URBANISM SOLUTIONS OF RELATIVELY SENSITIVE AREAS in settlements and landscape			
127NUKP	Town and Country Planning Instruments	ZK	5
The subject combines the topics of urban and landscape planning tools. In the spatial planning builds on the lessons in a bachelor study program-URB3. More detail is here treated the issue of spatial planning, in particular, the procedure for the acquisition and processing of spatial analytical data and spatial plan, common methodological approaches, contents and extent of the documentation. Students will get acquainted with the principles contained in the building Act and its implementing regulations. In the section on landscape planning are detailed procedures for planning each landscape of subsystems and the types of documents that can be used for this purpose.			

Name of the block: Povinn volitelné p edm ty, doporu ení S2

Minimal number of credits of the block: 30

The role of the block: S2

Code of the group: NA20190402_1

Name of the group: Architektura a stavitelství, diplomová práce

Requirement credits in the group: In this group you have to gain at least 30 credits

Requirement courses in the group: In this group you have to complete at least 1 course

Credits in the group: 30

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
127DPM	Diploma Thesis <i>Václav Jetel, Ivan Kaplan, Petr Durdík, Jan Mužík, František Pospíšil, Marek Janatka, Ivan Vorel, Jan Storch, Ivan Horký Ivan Vorel František Pospíšil (Gar.)</i>	Z	30	24C	L,Z	S2

Characteristics of the courses of this group of Study Plan: Code=NA20190402_1 Name=Architektura a stavitelství, diplomová práce

127DPM	Diploma Thesis	Z	30
Qualifying thesis completing the Master's degree. The Department of Urban Design, Town and Regional Planning enters theses in the study programme Architecture and Building Sciences (majoring in Architecture and Urbanism) and Civil Engineering, majoring in Environmental Engineering.			

List of courses of this pass:

Code	Name of the course	Completion	Credits
105ESSO	Aesthetic and Sociology	Z	3
The aim of the course is to introduce students to contemporary aesthetics as a discipline dealing with the effect of artistic and non-artistic objects on their recipients. The lectures will be based on the premise that contemporary aesthetics is characterized by a deepening distance from traditional aesthetics (based on the concepts of taste, beauty, nobility and genius, on the relationship between aesthetics and art, ethics or nature). We will also focus on contemporary topics such as aesthetics in the field of mass and digital media, everyday life, public space and sports. Students will be introduced to both theoretical texts in the field of sociology, modern art theory, and concrete projects (in the field of painting, sculpture, theater, film and music). Continuous consideration will be given to the sociological aspect of aesthetics, i.e. how the way in which artistic artifacts are perceived and created is reflected in the fact that the given artifact is always created and perceived within a certain community or a certain community.			
124HRRB	Historical structures and restoration of buildings	Z,ZK	7
In the lecture series, basic information about the structure and current tendencies of monument care in the Czech Republic, the history of monument care and the development of views on the protection of monuments (including industrial heritage) up to the present are explained. Approaches to the restoration of historical buildings are shown on selected examples. Furthermore, the lectures are focused on topics related to the own protection of historical and heritage-protected buildings. In particular, these are defects and failures of buildings, load effects and influences from the point of view of load history; non-force effects and influences, effects of forced deformation; durability and reliability; mechanical, physical, chemical degradation and corrosion processes; failures, reconstruction and rehabilitation of foundation structures, brick structures, concrete structures (reinforced concrete), prefabricated structures, wooden structures of buildings, protection of buildings against increased humidity and diagnostics of buildings.			
125SYB	Building Systems	ZK	4
Multi-criteria analysis of the requirements for the indoor environment and the function of the systems in different types of buildings and plants and optimization criteria for the design of energy and ecological building systems. Relationships between building technical equipment and the building. Integrated view of conceptual solutions in different building types in terms of indoor systems and building design. E.g. office buildings, residential buildings, halls, shopping centres, cultural centres, industrial buildings, sports buildings, family houses, passive etc. The audience will be introduced to the requirements for the indoor environment, the characteristic elements of energy and environmental building systems in relation to the structural design for the building type.			
127AMG1	Master Urban Studio 1	KZ	14
The first comprehensive design course in urban design as an application of theoretical preparation on a specific territory. Teaching of surveys and analyses, selection of research, variant preparation, defence and refinement of the design, technical and specific accompaniments, balance and visualization, final presentation at the exhibition.			
127AMG2	Master Urban Studio 2	KZ	16
URBANISM SOLUTIONS OF RELATIVELY SENSITIVE AREAS in settlements and landscape			
127ATUR	Urban Studio	KZ	9
Design studio focused on the creation - development and revitalization - of public spaces or systems of public spaces			
127DPM	Diploma Thesis	Z	30
Qualifying thesis completing the Master's degree. The Department of Urban Design, Town and Regional Planning enters theses in the study programme Architecture and Building Sciences (majoring in Architecture and Urbanism) and Civil Engineering, majoring in Environmental Engineering.			
127KAZP	Landscape Architecture and Environment	Z,ZK	5
The course is an introduction to some aspects of landscape architecture and environmental ecology and conservation. Teaching is provided by the Department of Urban Design, Town and Regional Planning (K127) and Dep. of Landscape Water Conservation (K143). Each department provides a block of lectures and a part of practicals. The lectures cover the landscape, its character and landscape character, the cultural and historical values of the landscape and their protection, landscape and greenery in the urban environment, the development of landscape and urban greenery from the Middle Ages to the present, including the ideological principles of contemporary landscape design and the principles of garden design, all within the necessary legislative framework. The second thematic block deals with the use of GIS for the assessment of landscape processes, introduces geoportals with landscape data, discusses the development of the cadastre, land management, landscape care, the importance of agriculture, surface water protection in the context of landscape care, rainfall-runoff relationships, floods and droughts. In the exercises, both thematic blocks are deepened by analyses of specific areas.			
127NUKP	Town and Country Planning Instruments	ZK	5
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127UKKO	Urban and Landscape Design	ZK	3
The course introduces selected chapters from urban and landscape composition and the theory of urbanism as a basis for urban and landscape design (city image, city environment, perception, landscape composition, composed landscape, cultural landmarks, the phenomenon of the garden in the historical context, etc.). The aim of the course is a comprehensive view of urban and landscape design as a creation of the environment. A theoretical basis and a sound analysis of existing towns and landscapes are subsequently a prerequisite for successful practical design. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are complemented by examples from history and examples of various urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), aspects of their planning (regulatory commissions) and some specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited external speakers.			

127USRM	Urban Structures and Urban Development	ZK	5
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127UTS	Urban Design and Information Systems	Z,ZK	5
In the lectures, the course describes students with current trends in urban design and the use of geographic information systems to process spatial planning tools. In the exercises, students acquire practical skills in processing real tasks that are solved by spatial planners.			
127UVI	Urban Planning and Public Infrastructure	ZK	5
As part of the lectures, the listener will learn about the basic activities and skills of a city engineer, city architect, urban planner and spatial planner in the field of public infrastructure, which is central to the processing of spatial planning tools according to the Building Act. For these purposes, the lectures are based on interpretation combined with a professional description of individual components of public infrastructure: transport infrastructure, technical infrastructure, civic equipment and public spaces.			
129SAR	Contemporary Architecture	Z,ZK	5
This course deals with contemporary architecture and its theory. The aim of the course is to get an overview of the most famous theoretical texts/sources that shaped the opinion on the form of architecture from the second half of the 20th century until today.			
129UPP	Introduction to professional practise	Z,ZK	4
The subject Introduction to professional practice aims to introduce students to the practical activities of the work of an architect and related performances. Above all, this is about other design work and associated services, connected with the legislative process, the course of construction management and the implementation of the building.			

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

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