

Study plan

Name of study plan: **Architektura a stavitelství, zaměřením Architektura a stavitelství**

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

Code	Name of the course	Completion	Credits
124HRRB	Historical structures and restoration of buildings 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.	Z,ZK	7
125SYB	Building Systems 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.	ZK	4

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
105ESSO	Aesthetic and Sociology Jitka Cirklová, Monika Dobiášová Jitka Cirklová Jitka Cirklová (Gar.)	Z	3	2P+1C	Z	z
127UVI	Urban Planning and Public Infrastructure Vojtěch Kolařík, Václav Jetel, Ivan Kaplan, Jan Cihlář Václav Jetel Ivan Kaplan (Gar.)	ZK	5	4P	L	z
129SAR	Contemporary Architecture Lenka Popelová, Petr Urlich, Nikolaj Brankov, Radomíra Sedláková Lenka Popelová Lenka Popelová (Gar.)	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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
127KAZP	Landscape Architecture and Environment Jiří Kupka, Josef Krása, Tomáš Dostál, Ivan Vorel Jiří Kupka Jiří Kupka (Gar.)	Z,ZK	5	3P+2C	Z	z
129UPP	Introduction to professional practise Jiří Šástka, Petr Lédl, Mikuláš Hulec, Jaroslav Da a Petr Lédl Petr Lédl (Gar.)	Z,ZK	4	2P+2C		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: NA20190001_1

Name of the group: zam ení Architektura a stavitelství, 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
129AMG1	Design Studio I Klára Kroftová, Nikolay Brankov, Aleš Van k, Michal Šmolík, Radek Zykan, Jiří Smolík, Jindřich Svatoš, Vladimír Gleich, Tomáš Šenberger, Michal Šourek Michal Šourek (Gar.)	KZ	14	12C	Z	PZ
129INT	Interior Vladimír Gleich, Zuzana Pešková, Jakub Zoula, Petra Lenz Vladimír Gleich Zuzana Pešková (Gar.)	Z,ZK	5	2P+2C	Z	PZ
126MGTA	Management A Václav Tatýrek, Daniel Macek Václav Tatýrek Daniel Macek (Gar.)	ZK	3	2P	Z,L	PZ
129AAKA	Architectural and Constructional Design Klára Kroftová, Aleš Van k, Tomáš Šenberger, Jan Pust jovský, Miloš Kop iva, Petr Dvoák, Martin N mec, Martin Volf, Vít Jurica, Jana Ho ická Petr Šíkola (Gar.)	KZ	9	7C	L	PZ
133ARST	Architecture and Statics Michal Netušil, Lukáš Vráblík Lukáš Vráblík Lukáš Vráblík (Gar.)	Z,ZK	5	2P+2C	L	PZ
129AMG2	Design Studio 2 Petr Lédl, Jaroslav Da a, Eva Linhartová, Tomáš Šenberger, Michal Šourek, Luboš Knytl, Petr Šíkola, Patrik Kotas, Karel Hájek, Jana Ho ická Mikuláš Hulec (Gar.)	KZ	16	12C	Z	PZ
129DEUM	History of Art Rudolf Pošva, Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	Z,ZK	5	2P+2C	Z	PZ

Characteristics of the courses of this group of Study Plan: Code=NA20190001_1 Name=zam ení Architektura a stavitelství, p edm ty zam ení

129AMG1	Design Studio I	KZ	14
Architecture not only as an object but in scale and the complex framework of the built environment, architecture articulating public space and articulated in its context, architecture as a poíesis, a phenomenon of sustainable development and an economic phenomenon; architecture as the result of a comprehensive creative process, which would impoverish itself if it overlooked and renounced the latest contributions of information technologies, namely virtual reality technologies and machine learning.			
129INT	Interior	Z,ZK	5
Basics of interior design: the relationship of functions to the design of interior space, scale, physical properties of the interior and their influence on the human senses (light, sound, thermal comfort + artwork, etc.). Separate lectures: daylight and artificial light, sources and requirements. Psychology of colour. Acoustics of indoor spaces. The overall effect of residential and commercial interiors on human psyche and client success. Classical materials for floors, walls, ceilings, suspended ceilings. Basic design structures in the furniture industry. New materials: nanotechnology, high-pressure metallaminates, polymethyl methacrylates, membrane structures in interior design.			
126MGTA	Management A	ZK	3
The lectures dealing with the issue of Facility Management are based on the EU standard EN 15221 " Facility Management" , which is defined in this study as the integrated management of all services that support the basic activities of the company . The course also deals with the issue operation of buildings from a technical and economic point of view . Part of the lectures dealing with economics students familiar with project management and application of his methods in practice of the architect / designer, multicriterial decision making and financing investment projects. Furthermore, the state and development of the Czech Republic and construction.			
129AAKA	Architectural and Constructional Design	KZ	9
The studio's brief is focused on building types where the structure largely influences the overall design, or can become an inspirational source or even a distinctive element of the architectural solution. The students then submit the project in the form of a study of the building, supplemented by a structural concept, preliminary calculations, sketches of details and selected structural elements. Physical models are an important part of the project development.			
133ARST	Architecture and Statics	Z,ZK	5
Design of selected concrete and steel structures with an emphasis on their architectural design. Interrelation between structural and architectural design.			
129AMG2	Design Studio 2	KZ	16
Master's Creation Studio 2 is a pre-diploma project. The assignment is usually the solution of a wider area of development areas in urban planning contexts. A comprehensive urban-architectural study is prepared for the selected area.			
129DEUM	History of Art	Z,ZK	5
An overview of the history of European art from antiquity to modern times			

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: NA20190401_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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
129DPM	Diploma Thesis Klára Kroftová, Petr Lédl, Mikuláš Hulec, Jaroslav Da a, Eva Linhartová, Vladimír Gleich, Tomáš Šenberger, Michal Šourek, Miloš Kop iva, Mikuláš Hulec Jaroslav Da a (Gar.)	Z	30	24C	L,Z	S2

Characteristics of the courses of this group of Study Plan: Code=NA20190401_1 Name=Architektura a stavitelství, diplomová práce

129DPM	Diploma Thesis	Z	30
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The thesis assignment is based on a pre-diploma project. The diploma project is an independent work. In the diploma thesis, a complex architectural study is prepared for the selected object or set of objects, supplemented by selected parts of the documentation of the DSP / DPS building part degree and the concept of selected parts of Statics and HVAC. At the defense, the student must prove his invention as an architect and the reality of his design.

List of courses of this pass:

Code	Name of the course	Completion	Credits
105ESSO	Aesthetic and Sociology 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.	Z	3
124HRRB	Historical structures and restoration of buildings 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.	Z,ZK	7
125SYB	Building Systems 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.	ZK	4
126MGTA	Management A The lectures dealing with the issue of Facility Management are based on the EU standard EN 15221 " Facility Management" , which is defined in this study as the integrated management of all services that support the basic activities of the company . The course also deals with the issue operation of buildings from a technical and economic point of view . Part of the lectures dealing with economics students familiar with project management and application of his methods in practice of the architect / designer, multicriterial decision making and financing investment projects. Furthermore, the state and development of the Czech Republic and construction.	ZK	3
127KAZP	Landscape Architecture and Environment 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.	Z,ZK	5
127UVI	Urban Planning and Public Infrastructure 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.	ZK	5
129AACA	Architectural and Constructional Design The studio's brief is focused on building types where the structure largely influences the overall design, or can become an inspirational source or even a distinctive element of the architectural solution. The students then submit the project in the form of a study of the building, supplemented by a structural concept, preliminary calculations, sketches of details and selected structural elements. Physical models are an important part of the project development.	KZ	9
129AMG1	Design Studio I Architecture not only as an object but in scale and the complex framework of the built environment, architecture articulating public space and articulated in its context, architecture as a poiesis, a phenomenon of sustainable development and an economic phenomenon; architecture as the result of a comprehensive creative process, which would impoverish itself if it overlooked and renounced the latest contributions of information technologies, namely virtual reality technologies and machine learning.	KZ	14
129AMG2	Design Studio 2 Master's Creation Studio 2 is a pre-diploma project. The assignment is usually the solution of a wider area of development areas in urban planning contexts. A comprehensive urban-architectural study is prepared for the selected area.	KZ	16
129DEUM	History of Art An overview of the history of European art from antiquity to modern times	Z,ZK	5

129DPM	Diploma Thesis	Z	30
The thesis assignment is based on a pre-diploma project. The diploma project is an independent work. In the diploma thesis, a complex architectural study is prepared for the selected object or set of objects, supplemented by selected parts of the documentation of the DSP / DPS building part degree and the concept of selected parts of Statics and HVAC. At the defense, the student must prove his invention as an architect and the reality of his design.			
129INT	Interior	Z,ZK	5
Basics of interior design: the relationship of functions to the design of interior space, scale, physical properties of the interior and their influence on the human senses (light, sound, thermal comfort + artwork, etc.). Separate lectures: daylight and artificial light, sources and requirements. Psychology of colour. Acoustics of indoor spaces. The overall effect of residential and commercial interiors on human psyche and client success. Classical materials for floors, walls, ceilings, suspended ceilings. Basic design structures in the furniture industry. New materials: nanotechnology, high-pressure metallaminates, polymethyl methacrylates, membrane structures in interior design.			
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.			
133ARST	Architecture and Statics	Z,ZK	5
Design of selected concrete and steel structures with an emphasis on their architectural design. Interrelation between structural and architectural design.			

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

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