

Study plan

Name of study plan: Architektura a stavitelství, zaměřený 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: Studijní plán zaměřený Architektura a stavitelství od akademického roku 2025/2026

Name of the block: Compulsory courses

Minimal number of credits of the block: 97

The role of the block: Z

Code of the group: NA20250101

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 16 credits

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

Credits in the group: 16

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 Mejka, 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
129INT	Interior Vladimír Gleich, Jakub Ficenec, Anna Marie Černá, Zdenka Nováková, Zuzana Pešková, Jakub Zoula, Petra Lenz Vladimír Gleich Zuzana Pešková (Gar.)	Z,ZK	5	2P+2C	Z	z

Characteristics of the courses of this group of Study Plan: Code=NA20250101 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.			
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.			

Code of the group: NA20250102

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 21 credits

Requirement courses in the group: In this group you have to complete at least 5 courses

Credits in the group: 21

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 Dobíášová 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 Cihlá Václav Jetel Ivan Kaplan (Gar.)</i>	ZK	5	4P	L	z
129SAR	Contemporary Architecture <i>Lenka Popelová, Petr Urlich, David Šašný, Klára Ciesarová, Nikolay Brankov, Radomíra Sedláková Lenka Popelová Lenka Popelová (Gar.)</i>	Z,ZK	5	2P+2C	L	z
126MGTA	Management A <i>Václav Tatýrek, Daniel Macek Václav Tatýrek Daniel Macek (Gar.)</i>	ZK	3	2P	L	z
133ARST	Architecture and Statics <i>Michal Netušil, Lukáš Vráblík Lukáš Vráblík Lukáš Vráblík (Gar.)</i>	Z,ZK	5	2P+2C	L	z

Characteristics of the courses of this group of Study Plan: Code=NA20250102 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.			
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.			
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.			

Code of the group: NA20250103

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 30 credits

Requirement courses in the group: In this group you have to complete at least 4 courses

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
127KAZP	Landscape Architecture and Environment <i>Simona Vondráková, Jiří Kupka, Josef Krása, Tomáš Dostál Jiří Kupka Jiří Kupka (Gar.)</i>	Z,ZK	5	3P+2C	Z	z
129UPP	Introduction to professional practise <i>Jiří Šašný, Petr Lédl, Mikuláš Hulec, Jaroslav Da a Petr Lédl Petr Lédl (Gar.)</i>	Z,ZK	4	2P+2C	Z	z
129DEUM	History of Art <i>Rudolf Pošva, Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)</i>	Z,ZK	5	2P+2C	Z	z
129AMG2	Design Studio 2 <i>Klára Křoftová, Helena Hexnerová, Petr Lédl, Jaroslav Da a, Petr Kolář, Jindřich Svatoš, Petra Novotná, Jaromír Kroák, Václav Dvořák, Jana Hoická Mikuláš Hulec (Gar.)</i>	KZ	16	12C	Z	z

Characteristics of the courses of this group of Study Plan: Code=NA20250103 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.			
129DEUM	History of Art	Z,ZK	5
An overview of the history of European art from antiquity to modern times			
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.			

Code of the group: NA20250104

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, Vladimír Gleich, Helena Hexnerová, Petr Lédl, Mikuláš Hulec, Jaroslav Da a, Petr Kolář, Petra Novotná, Jaromír Kroák, Mikuláš Hulec Jaroslav Da a (Gar.)	Z	30	24C	L,Z	z

Characteristics of the courses of this group of Study Plan: Code=NA20250104 Name=Architektura a stavitelství, diplomová práce

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.			

Name of the block: Alternativní podmínky

Minimal number of credits of the block: 23

The role of the block: OO

Code of the group: NA20250101A

Name of the group: Architektura a stavitelství, volba ateliéru, 1. semestr

Requirement credits in the group: In this group you have to gain at least 14 credits

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

Credits in the group: 14

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 1 Klára Kroftová, Vladimír Gleich, Nikolay Brankov, Mikuláš Hulec, Jaroslav Da a, Aleš Vaněk, Jindřich Svatoš, Michal Sourek, Tomáš Šenberger, Michal Šourek Michal Šourek (Gar.)	KZ	14	12C	Z	OO
129DSM1	Design Studio M1	KZ	14	12C	Z	OO

Characteristics of the courses of this group of Study Plan: Code=NA20250101A Name=Architektura a stavitelství, volba ateliéru, 1. semestr

129AMG1	Design Studio 1	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 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.			

129DSM1	Design Studio M1	KZ	14
The first master's project differs from the Bachelor's project given the topic and scope, which corresponds to the level of information. Priority will be sent out issues that were not included in the Bachelor program, either in terms of typology (production, business, culture), the type of creative work (renovation, conversion) or by other factors (environment, energy intensity). The proposed buildings are always in a specific environment, are used for entering and student architectural competitions. The project scope at the level of architectural studies, extended by a specific assignment of a crucial detail - both artistic, architectural and technical and technological, including calculations. The project aims to simulate a real situation, with which the student / architect will meet after graduation. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.			

Code of the group: NA20250102A

Name of the group: Architektura a stavitelství, volba ateliéru, 2. semestr

Requirement credits in the group: In this group you have to gain at least 9 credits

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

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
129AAKA	Architectural and Constructional Design <i>Radek Zígler, Klára Kroftová, Aleš Van k, Petr Šíkola, Patrik Kotas, Karel Hájek, Tomáš Šenberger, Miloš Kop iva, Ji í Pošmourný, Jana Ho ická Petr Šíkola (Gar.)</i>	KZ	9	7C	L	OO
129DSM2	Design Studio M2	KZ	9	7C	L	OO

Characteristics of the courses of this group of Study Plan: Code=NA20250102A Name=Architektura a stavitelství, volba ateliéru, 2. semestr

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.			
129DSM2	Design Studio M2	KZ	9
The task in this design studio is focused on those types of buildings which the structures has largely affects the overall solution, or may become a source of inspiration or even a significant element in the architectural design. The students present their solution in the form of architectural study, together with the design concepts, sketches and details of selected structure parts. An important part of development of project design is physical models. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.			

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.			
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.			

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.			
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.			
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.			
129AMG1	Design Studio 1	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 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.			
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			
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.			
129DSM1	Design Studio M1	KZ	14
The first master's project differs from the Bachelor's project given the topic and scope, which corresponds to the level of information. Priority will be sent out issues that were not included in the Bachelor program, either in terms of typology (production, business, culture), the type of creative work (renovation, conversion) or by other factors (environment, energy intensity). The proposed buildings are always in a specific environment, are used for entering and student architectural competitions. The project scope at the level of architectural studies, extended by a specific assignment of a crucial detail - both artistic, architectural and technical and technological, including calculations. The project aims to simulate a real situation, with which the student / architect will meet after graduation. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.			
129DSM2	Design Studio M2	KZ	9
The task in this design studio is focused on those types of buildings which the structures has largely affects the overall solution, or may become a source of inspiration or even a significant element in the architectural design. The students present their solution in the form of architectural study, together with the design concepts, sketches and details of selected structure parts. An important part of development of project design is physical models. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.			
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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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