Study plan

Name of study plan: Architektura a stavitelství, zam ení 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 p edm ty, 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 Ji í Witzany, Tomáš ejka, Radek Zigler, Klára Kroftová Klára Kroftová	Z,ZK	7	4P+2C	Z	Z
125SYB	Building Systems Karel Kabele Jan Tuwoniak 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 p edm ty, 1. semestr

124HRRB	Historical structures and restoration of buildings	∠,∠K	/	l
In the lecture series, bas	sic information about the structure and current tendencies of monument care in the Czech Republic, the history of monument	care and the deve	lopment of views	l
on the protection of mor	numents (including industrial heritage) up to the present are explained. Approaches to the restoration of historical buildings a	re shown on sele	cted examples.	l
Furthermore, the lecture	es are focused on topics related to the own protection of historical and heritage-protected buildings. In particular, these are d	efects and failures	s of buildings,	l
load effects and influence	es from the point of view of load history; non-force effects and influences, effects of forced deformation; durability and reliabili	ty; mechanical, ph	nysical, chemical	l
degradation and corrosi	on processes; failures, reconstruction and rehabilitation of foundation structures, brick structures, concrete structures (reinfo	rced concrete), pr	refabricated	l
structures wooden stru	ctures of buildings, protection of buildings against increased humidity and diagnostics of buildings		· ·	l

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 p edm ty, 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 Vojt ch Ko alka, Václav Jetel, Ivan Kaplan, Jan Cihlá Václav Jetel Ivan Kaplan (Gar.)	ZK	5	4P	L	Z
129SAR	Contemporary Architecture Lenka Popelová, Petr Urlich, Nikolay 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

<u>′</u>K |

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 Simona Vondrá ková, Ji í Kupka, Josef Krása, Tomáš Dostál Ji í Kupka Ji í Kupka (Gar.)	Z,ZK	5	3P+2C	Z	Z
129UPP	Introduction to professional practise Ji í Š ástka, 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 en 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:

129AMG1

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, Nikolay Brankov, Jaroslav Da a, Aleš Van k, Michal Šmolík, Radek Zykan, Ji í Smolík, Jind ich Svatoš, Vladimír Gleich, Michal Šourek Michal Šourek (Gar.)	KZ	14	12C	Z	PZ
129INT	Interior Vladimír Gleich, Anna Marie erná, 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 Radek Zigler, Klára Kroftová, Aleš Van k, Tomáš Šenberger, Jan Pust jovský, Miloš Kop iva, Petr Dvo ák, Martin N mec, Martin Volf, Jana Ho ická Petr Šikola (Gar.)	KZ	9	7C	L	PZ
133ARST	Architecture and Statics Michal Netušil, Lukáš Vráblík Lukáš Vráblík (Gar.)	Z,ZK	5	2P+2C	L	PZ
129AMG2	Design Studio 2 Klára Kroftová, Petr Lédl, Jaroslav Da a, Eva Linhartová, Jind ich Svatoš, Tomáš Šenberger, Michal Šourek, Helena Hexnerová, Luboš Knytl, 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

ΚZ

14

Architecture not on	ly as an object but in scale and the complex framework of the built environment, architecture articulating public space and articu	lated in its context,	architecture as
a poiésis, a phenoi	nenon of sustainable development and an economic phenomenon; architecture as the result of a comprehensive creative proces	ss, which would imp	overish itself if
it overlooked and re	enounced the latest contributions of information technologies, namely virtual reality technologies and machine learning.		
129INT	Interior	Z,ZK	5
Basics of interior d	esign: 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 + a	artwork, etc.). Separate lectures: daylight and artificial light, sources and requirements. Psychology of colour. Acoustics of indoor	spaces. The overa	Il effect of
residential and con	nmercial interiors on human psyche and client success. Classical materials for floors, walls, ceilings, suspended ceilings. Basic d	esign structures in	the furniture
industry. New mate	rials: nanotechnology, high-pressure metallaminates, polymethyl methacrylates, membrane structures in interior design.		
126MGTA	Management A	ZK	3
The lectures dealin	g with the issue of Facility Management are based on the EU standard EN 15221 " Facility Management" , which is defined in this s	tudy as the integrate	ed 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 ecc	nomic point of view	v . Part of the
lectures dealing wi	h economics students familiar with project management and application of his methods in practice of the architect / designer, mi	ulticriterial decision	making and
financing investme	nt projects. Furthermore, the state and development of the Czech Republic and construction.		
129AAKA	Architectural and Constructional Design	KZ	9
The studio's brief is	s focused on building types where the structure largely influences the overall design, or can become an inspirational source or ev	en a distinctive ele	ment of the
architectural solution	n. The students then submit the project in the form of a study of the building, supplemented by a structural concept, preliminary o	alculations, sketche	es 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 d	esign.	
129AMG2	Design Studio 2	KZ	16
Master's Creation S	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 compre	hensive
urban-architectural	study is prepared for the selected area.		
129DEUM	History of Art	Z,ZK	5

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

Minimal number of credits of the block: 30

An overview of the history of European art from antiquity to modern times

Design Studio 1

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	S 2

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

ı	IZ9DFW	Diploma mesis		30
I	The thesis assignment	s based on a pre-diploma project. The diploma project is an independent work. In the diploma thesis, a complex architectural	study is prepared	I 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	arts of Statics and	HVAC. At the
1				

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	7	3
	urse is to introduce students to contemporary aesthetics as a discipline dealing with the effect of artistic and non-artistic objects on the	_	
	emise that contemporary aesthetics is characterized by a deepening distance from traditional aesthetics (based on the concepts of tas		
on the relationshi	ip between aesthetics and art, ethics or nature). We will also focus on contemporary topics such as aesthetics in the field of mass and	d digital media, eve	ryday life,
oublic space and sp	ports. Students will be introduced to both theoretical texts in the field of sociology, modern art theory, and concrete projects (in the field	of painting, sculpto	ure, theate
film and music). Co	ontinuous consideration will be given to the sociological aspect of aesthetics, i.e. how the way in which artistic artifacts are perceived fact that the given artifact is always created and perceived within a certain community or a certain community.	and created is refle	ected in the
124HRRB	Historical structures and restoration of buildings	Z,ZK	7
n the lecture series	s, basic information about the structure and current tendencies of monument care in the Czech Republic, the history of monument care	and the developm	ent of view
•	of monuments (including industrial heritage) up to the present are explained. Approaches to the restoration of historical buildings are		
	lectures are focused on topics related to the own protection of historical and heritage-protected buildings. In particular, these are defe		_
	fluences from the point of view of load history; non-force effects and influences, effects of forced deformation; durability and reliability; n		
degradation and	l corrosion processes; failures, reconstruction and rehabilitation of foundation structures, brick structures, concrete structures (reinforc structures, wooden structures of buildings, protection of buildings against increased humidity and diagnostics of buildings.		abricated
125SYB	Building Systems	ZK	4
	sis of the requirements for the indoor environment and the function of the systems in different types of buildings and plants and optimic		-
-	ical building systems. Relationships between building technical equipment and the building. Integrated view of conceptual solutions in c		_
٠,	and building design. E.g. office buildings, residential buildings, halls, shopping centres, cultural centres, industrial buildings, sports buildings.	٠,,	
etc. The audience w	will be introduced to the requirements for the indoor environment, the characteristic elements of energy and environmental building systems.	ems in relation to th	ne structura
	design for the building type.		
126MGTA	Management A	ZK	3
a			
ne lectures dealing	g with the issue of Facility Management are based on the EU standard EN 15221 " Facility Management" , which is defined in this study is	as the integrated m	anagemer
of all services that	at support the basic activities of the company . The course also deals with the issue operation of buildings from a technical and econor	mic point of view .	Part of the
of all services that	at support the basic activities of the company. The course also deals with the issue operation of buildings from a technical and economic students familiar with project management and application of his methods in practice of the architect / designer, multion	mic point of view .	Part of the
of all services that lectures dealing v	at support the basic activities of the company . The course also deals with the issue operation of buildings from a technical and econor with economics students familiar with project management and application of his methods in practice of the architect / designer, multion financing investment projects. Furthermore, the state and development of the Czech Republic and construction.	mic point of view . I criterial decision m	Part of the aking and
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of all services that lectures dealing volume 127KAZP The course is an in	at support the basic activities of the company . The course also deals with the issue operation of buildings from a technical and econor with economics students familiar with project management and application of his methods in practice of the architect / designer, multion financing investment projects. Furthermore, the state and development of the Czech Republic and construction. Landscape Architecture and Environment throduction to some aspects of landscape architecture and environmental ecology and conservation. Teaching is provided by the Department	mic point of view . I criterial decision m	Part of the aking and 5 esign, Town
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of all services that lectures dealing with the course is an in and Regional Pl landscape, its characteristics of the design, all within the course is an in an and season.	at support the basic activities of the company. The course also deals with the issue operation of buildings from a technical and econor with economics students familiar with project management and application of his methods in practice of the architect / designer, multion financing investment projects. Furthermore, the state and development of the Czech Republic and construction. Landscape Architecture and Environment attroduction to some aspects of landscape architecture and environmental ecology and conservation. Teaching is provided by the Department provides a block of lectures and a part of practic haracter and landscape character, the cultural and historical values of the landscape and their protection, landscape and greenery in descape and urban greenery from the Middle Ages to the present, including the ideological principles of contemporary landscape design the necessary legislative framework. The second thematic block deals with the use of GIS for the assessment of landscape processes.	mic point of view. Criterial decision m Z,ZK Artment of Urban Dicals. The lectures of the urban environing and the principles, introduces geop	Part of the aking and 5 esign, Tow cover the nent, the es of garde ortals with
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129DPM	Diploma Thesis	Z	30			
The thesis assignm	ent is based on a pre-diploma project. The diploma project is an independent work. In the diploma thesis, a complex architectural stu	dy is prepared for	he selected			
object or set of ob	jects, supplemented by selected parts of the documentation of the DSP / DPS building part degree and the concept of selected parts	s of Statics and H\	AC. 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	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 s	paces. The overall	effect of			
residential and co	mmercial interiors on human psyche and client success. Classical materials for floors, walls, ceilings, suspended ceilings. Basic desi	gn structures in th	e furniture			
	industry. New materials: nanotechnology, high-pressure metallaminates, polymethyl methacrylates, membrane structures in interio	r 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/source	es 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 Introdu	ction to professional practice aims to introduce students to the practical activities of the work of an architect and related performance:	s. Above all, this is	about other			
design	work and associated services, connected with the legislative process, the course of construction management and the implementati	on of the building.				
133ARST	Architecture and Statics	Z,ZK	5			
Desi	gn of selected concrete and steel structures with an emphasis on their architectural design. Interrelation between structural and arch	itectural design.	'			

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-18, time 09:37.