Study plan

Name of study plan: U itelství stavebních p edm t pro st ední školy - prezen ní forma studia

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Training Teachers of Building Courses at Higher Secondary Schools 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 pro prezen ní formu studia od akademického roku 2025/2026

Name of the block: Compulsory courses Minimal number of credits of the block: 51 The role of the block: Z

Code of the group: NU202502

Name of the group: U itelství, povinné p edm ty - oborová didaktika Requirement credits in the group: In this group you have to gain at least 27 credits Requirement courses in the group: In this group you have to complete at least 5 courses Credits in the group: 27

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
123DSMV	Didactics of Building Materials and their Practical Teaching	Z,ZK	6	2P+2C	Z	Z
132MVSM	Methodology of Teaching Structural Mechanics in Examples	Z,ZK	6	2P+2C	Z	Z
154DGPM	Didactics of Land Surveying and Instrumental Measurement	Z,ZK	6	2P+2C	L	Z
124MVPS	Didactics of Building Structures and of Building Physics	Z,ZK	6	2P+2C	L	Z
123SPDP	Semester Project of Diploma Thesis	Z	3	4B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=NU202502 Name=U itelství, povinné p edm ty - oborová didaktika

123DSMV	Didactics of Building Materials and their Practical Teaching	Z,ZK	6				
132MVSM	Methodology of Teaching Structural Mechanics in Examples	Z,ZK	6				
154DGPM	54DGPM Didactics of Land Surveying and Instrumental Measurement						
124MVPS	Didactics of Building Structures and of Building Physics	Z,ZK	6				
In the introduction, the s	In the introduction, the subject is focused on the theoretical side of the didactics of professional teaching. Students will get to know the RVP and ŠVP educational programs, teaching						
methods, key competer	cies, goals, didactic principles and resources. Emphasis is placed on the phases of the lesson, the preparation of the teacher	er for the lesson, n	nethods of				
knowledge assessment	and the creation of a didactic test. A significant part of the teaching focuses on the practical explanation of the didactics of selec	ted issues of build	ing construction,				
specifically structural systems of buildings, vertical and horizontal load-bearing structures, stairs, foundation structures, substructure, protection against ground moisture and expansion							
of load-bearing structures. The expanding part is the issue of building physics (thermal protection of buildings, sun exposure, daylighting, building acoustics), which is either not taught							
at all, or only to a limited extent, in high schools with a focus on construction.							
123SPDP	Semester Project of Diploma Thesis	Z	3				

Code of the group: NU202504 Name of the group: U itelství, povinné p edm ty - praxe Requirement credits in the group: In this group you have to gain at least 24 credits Requirement courses in the group: In this group you have to complete at least 3 courses Credits in the group: 24 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
123PPPR	Propedeutics of Pedagogical Practice	KZ	6	2P+2C	L	Z
123SPPR	Continuous Teaching Practice	KZ	15	450XH	Z	Z
123RPPR	Reflection of Teaching Practice	Z	3	1P+1C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=NU202504 Name=U itelství, povinné p edm ty - praxe

123SPPR Continuous Teaching Practice KZ 123PPR Reflection of Teaching Practice Z	123PPPR	Propedeutics of Pedagogical Practice	KZ	6
123PDPP Reflection of Teaching Practice 7	123SPPR	Continuous Teaching Practice		15
	123RPPR	Reflection of Teaching Practice	Z	3

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 51 The role of the block: P

Code of the group: NU202501

Name of the group: U itelství, povinné p edm ty - u itelská propedeutika Requirement credits in the group: In this group you have to gain at least 24 credits Requirement courses in the group: In this group you have to complete at least 6 courses Credits in the group: 24

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
32MC-P-U SP-01	Role of Teachers in Modern Society	ZK	3	2P+0C		Р
32MC-P-PEDO-01	General Pedagogy	Z,ZK	5	2P+1C		Р
32MC-P-PSEP-01	Psychology in Educational Process	Z,ZK	5	2P+1C		Р
32MC-P-ODID-01	General Didactics	Z,ZK	5	2P+1C		Р
32MC-P-MSVV-01	Social Science Research Methods	Z,ZK	3	1P+1C		Р
32MC-P-PEDS-01	Social Pedagogy	ZK	3	2P+0C		Р

Characteristics of the courses of this group of Study Plan: Code=NU202501 Name=U itelství, povinné p edm ty - u itelská propedeutika

ZK	3
Z,ZK	5
Z,ZK	5
Z,ZK	5
Z,ZK	3
ZK	3
	Z,ZK Z,ZK Z,ZK Z,ZK

Code of the group: NU202503

Name of the group: U itelství, povinné p edm ty - oborové Requirement credits in the group: In this group you have to gain at least 18 credits Requirement courses in the group: In this group you have to complete at least 5 courses Credits in the group: 18 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
133SK1U	Building Structures 1	ZK	3	2P	L	Р
122PRSU	Planning and Implementation of Projects	ZK	3	2P	L	Р
127ASKU	Architecture, Settlements and Landscape <i>Ji í Kupka</i>	Z,ZK	6	2P+2C	L	Ρ
134SK2U	Building Structures 2	ZK	3	2P	Z	Р
124KOCU	Exercises in Building Construction	ZK	3	2C	Z	Р

Characteristics of the courses of this group of Study Plan: Code=NU202503 Name=U itelství, povinné p edm ty - oborové

133SK1U	Building Structures 1	ZK	3			
This course aims to provide uderstanding of the specifics of concrete and concrete structures with respect to the didactics of lecturing concrete structures.						
122PRSU	Planning and Implementation of Projects	ZK	3			
127ASKU	Architecture, Settlements and Landscape	Z,ZK	6			
134SK2U	Building Structures 2	ZK	3			
124KOCU	Exercises in Building Construction	ZK	3			
The course is focused on practicing the design and drawing of building structures, including their assessment from the point of view of building physics. Students will become familiar						
with and/or improve in structural designs of buildings, preliminary dimensioning and drawing of building structures. They will learn basic building physics calculations in the field of						

thermal protection of buildings, building acoustics, sun exposure and daylighting.

Code of the group: NU202509

Name of the group: U itelství, diplomová práce

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
123DPUC	Diploma Thesis	Z	9		Z,L	Р

Characteristics of the courses of this group of Study Plan: Code=NU202509 Name=U itelství, diplomová práce

123DPUC	Diploma Thesis	

Z 9

Name of the block: Compulsory elective courses Minimal number of credits of the block: 9 The role of the block: S

Code of the group: NU202505PV

Name of the group: U itelství, povinn volitelné p edm ty - p edm ty v angli tin Requirement credits in the group: In this group you have to gain at least 6 credits Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 6

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
126YCON	Construction Contracting Aleš Tomek, Radan Tomek Aleš Tomek Aleš Tomek (Gar.)	Z,ZK	4	4P	L	S
32ME-P-PRSK-01	Presentation and Communication Skills	ZK	4	0P+4C		S

Characteristics of the courses of this group of Study Plan: Code=NU202505PV Name=U itelství, povinn volitelné p edm ty - p edm ty v angli tin

126YCON	Construction Contracting	Z,ZK	4				
As every project manager in construction business has to be a contract manager at the same time, understanding the contract - respectively contracting in general - is a must. Course							
of Construction Contrac	of Construction Contracting is oriented on current business practices and methods, management techniques and understanding general legal principles, codes and regulations. It is						
about doing business in	about doing business in construction using standard procurement systems and applying given types of contracts, respectively standard contracts (e.g. FIDIC). Lectures are based on						
the real practice experience of both course's lecturers and various case studies are studied and solved in the course.							
32ME-P-PRSK-01	Presentation and Communication Skills	ZK	4				

Code of the group: NU202507PV

Name of the group: U itelství, povinn volitelné p edm ty - oborová didaktika Requirement credits in the group: In this group you have to gain at least 3 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 3 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
32MC-P-TECR-01	Impacts of Information Technology on Society	Z,ZK	3	1P+1C		S
32MC-P-DLAB-01	Didactics of Laboratories	KZ	3	0P+2C		S

Characteristics of the courses of this group of Study Plan: Code=NU202507PV Name=U itelství, povinn volitelné p edm ty - oborová didaktika

32MC-P-TECR-0	Impacts of Information Technology on Society	Z,ZK	3
32MC-P-DLAB-0	Didactics of Laboratories	KZ	3

Name of the block: choice of courses from a compulsory group of courses Minimal number of credits of the block: 9 The role of the block: SA

Code of the group: NU202506PV

Name of the group: U itelství, povinn volitelné p edm ty - u itelská propedeutika Requirement credits in the group: In this group you have to gain at least 6 credits Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 6

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
32MC-P-SPKO-01	Social and Pedagogical Communication	KZ	3	0P+2C		SA
32MC-P-PSHY-01	Psycho-hygiene Aspects of Teaching Profession	Z,ZK	3	1P+1C		SA
32MC-P-RIZZ-01	Risk Behavior of Pupils	KZ	3	1P+1C		SA
32MC-P-OSPN-01	Personality: Pathology and Normality	KZ	3	1P+1C		SA

Characteristics of the courses of this group of Study Plan: Code=NU202506PV Name=U itelství, povinn volitelné p edm ty - u itelská propedeutika

32MC-P-SPKO-01 Social and Pedagogical Communication	KZ	3
32MC-P-PSHY-01 Psycho-hygiene Aspects of Teaching Profession	Z,ZK	3
32MC-P-RIZZ-01 Risk Behavior of Pupils	KZ	3
32MC-P-OSPN-01 Personality: Pathology and Normality	KZ	3

Code of the group: NU202508PV

Name of the group: U itelství, povinn volitelné p edm ty - oborové stavební Requirement credits in the group: In this group you have to gain at least 3 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 3

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
124YRHS	Reconstruction of Historical Building Structures Tomáš ejka, Radek Zigler, Ji í Witzany Ji í Witzany Ji í Witzany (Gar.)	Z	2	1P+1C	L	SA
134YPOD	Fire Resistance of Steel and Timber Structures Zden k Sokol Zden k Sokol Zden k Sokol (Gar.)	Z	2	1P+1C	L	SA
127UKKO	Urban and Landscape Design Zuzana Pešková, Ivan Vorel, Ji í Kupka Ji í Kupka Zuzana Pešková (Gar.)	ZK	3	2P	L	SA
129TSTP	Traditional Building Technologies and Crafts Ji í Pošmourný, Mat j Bohá, Klára Kroftová Klára Kroftová (Gar.)	ZK	3	2P	L	SA

Characteristics of the courses of this group of Study Plan: Code=NU202508PV Name=U itelství, povinn volitelné p edm ty - oborové stavební

124YRHS Reconstruction of Historical Building Structures	Z	2				
In the period from the second half of the 19th century by 1960, more than 250 thousand of two- to five-story brick apartment (mainly rental) houses in traditional brick technology were						
constructed in the Czech Republic. Brick buildings from this period were built according to regulations, building codes and laws from the turn of the 19th and 20th centuries. Multi-storey						
brick tenement houses do not meet the current thermal, acoustic and other requirements, the requirements of a dynamically developing society to the	ne required extent	, and in many				
cases require regeneration and modernization interventions, including the replacement of non-compliant and out-of-date structures and equipment ena	abling their furthe	use. The course				
is focused on the current issue of renewal, reconstruction and modernization of brick multi-storey rental apartment buildings, on historical structures and	materials, the issu	le of degradation				
and aging of structures and materials of historic brick residential buildings, their residual life, failures and reconstruction of historical buildings and th	eir parts. Furtherr	more, the course				
is focused on the issue of improving the well-being of the internal environment, the replacement of finishing structures, opening fillings, etc. as an int	tegral part of the r	nodernization of				
these buildings.						
134YPOD Fire Resistance of Steel and Timber Structures	Z	2				
The class gives introduction to fire modeling, fire safety and fire resistance of steel, steel-concrete composite and timber structural elements.	1					
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 des	sign (city image, c	ity 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	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	e 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 comple	mented by example	oles 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), as	spects of their plar	nning (regulatory				
commissions) and some specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited external speakers.						
129TSTP Traditional Building Technologies and Crafts	ZK	3				
The lecture series of the course focuses on the construction and design practices of traditional urban construction, selected crafts related to the topic at hand and also on the methodological						
proposal of the procedure of sensitive conservation restoration of the affected details of historical buildings. The lectures will include exemplary examples of restoration and presentations						
by practitioners focused on particular thematic areas. The lectures will focus on the following building professions.						

List of courses of this pass:

Code	Name of the course	Completion	Credits			
122PRSU	Planning and Implementation of Projects	ZK	3			
123DPUC	Diploma Thesis	Z	9			
123DSMV	Didactics of Building Materials and their Practical Teaching	Z,ZK	6			
123PPPR	Propedeutics of Pedagogical Practice	KZ	6			
123RPPR	Reflection of Teaching Practice	Z	3			
123SPDP	Semester Project of Diploma Thesis	Z	3			
123SPPR	Continuous Teaching Practice	KZ	15			
124KOCU	Exercises in Building Construction	ZK	3			
The course is focus	sed on practicing the design and drawing of building structures, including their assessment from the point of view of building physics.	Students will becc	me familiar			
with and/or impro	ve in structural designs of buildings, preliminary dimensioning and drawing of building structures. They will learn basic building physi	cs calculations in t	he field of			
	thermal protection of buildings, building acoustics, sun exposure and daylighting.					
124MVPS	Didactics of Building Structures and of Building Physics	Z,ZK	6			
	the subject is focused on the theoretical side of the didactics of professional teaching. Students will get to know the RVP and ŠVP e					
	mpetencies, goals, didactic principles and resources. Emphasis is placed on the phases of the lesson, the preparation of the teache					
	nent and the creation of a didactic test. A significant part of the teaching focuses on the practical explanation of the didactics of selected	•				
	al systems of buildings, vertical and horizontal load-bearing structures, stairs, foundation structures, substructure, protection against g					
of load-bearing stru	ctures. The expanding part is the issue of building physics (thermal protection of buildings, sun exposure, daylighting, building acous	tics), which is eithe	er not taught			
(2)(2)(2)	at all, or only to a limited extent, in high schools with a focus on construction.	_				
124YRHS	Reconstruction of Historical Building Structures	Z	2			
	he second half of the 19th century by 1960, more than 250 thousand of two- to five-story brick apartment (mainly rental) houses in tra-					
	Zech Republic. Brick buildings from this period were built according to regulations, building codes and laws from the turn of the 19th a					
	uses do not meet the current thermal, acoustic and other requirements, the requirements of a dynamically developing society to the		,			
	eration and modernization interventions, including the replacement of non-compliant and out-of-date structures and equipment enabli rrent issue of renewal, reconstruction and modernization of brick multi-storey rental apartment buildings, on historical structures and ma	-				
	ires and materials of historic brick residential buildings, their residual life, failures and reconstruction of historical buildings and their l		-			
	sue of improving the well-being of the internal environment, the replacement of finishing structures, opening fillings, etc. as an integr					
	these buildings.					
126YCON	Construction Contracting	Z,ZK	4			
As every project ma	anager in construction business has to be a contract manager at the same time, understanding the contract - respectively contracting	in general - is a m	nust. Course			
of Construction Co	ntracting is oriented on current business practices and methods, management techniques and understanding general legal principle	s, codes and regul	lations. It is			
about doing busine	ss in construction using standard procurement systems and applying given types of contracts, respectively standard contracts (e.g. I	FIDIC). Lectures ar	e based on			
	the real practice experience of both course's lecturers and various case studies are studied and solved in the course.					
127ASKU	Architecture, Settlements and Landscape	Z,ZK	6			
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					
	I design. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are compleme					
-	rious urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), aspective and a second sec					
commiss	commissions) and some specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited external speakers.					

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129TSTP	Traditional Building Technologies and Crafts	ZK	3
	f the course focuses on the construction and design practices of traditional urban construction, selected crafts related to the topic at hand		
proposal of the proc	edure of sensitive conservation restoration of the affected details of historical buildings. The lectures will include exemplary examples of	of restoration and pr	resentations
	by practitioners focused on particular thematic areas. The lectures will focus on the following building professions.		1
132MVSM	Methodology of Teaching Structural Mechanics in Examples	Z,ZK	6
133SK1U	Building Structures 1	ZK	3
This o	course aims to provide uderstanding of the specifics of concrete and concrete structures with respect to the didactics of lecturing cor	ncrete structures.	
134SK2U	Building Structures 2	ZK	3
134YPOD	Fire Resistance of Steel and Timber Structures	Z	2
	The class gives introduction to fire modeling, fire safety and fire resistance of steel, steel-concrete composite and timber structural	elements.	I
154DGPM	Didactics of Land Surveying and Instrumental Measurement	Z,ZK	6
32MC-P-DLAB-01	Didactics of Laboratories	KZ	3
32MC-P-MSVV-01	Social Science Research Methods	Z,ZK	3
32MC-P-ODID-01	General Didactics	Z,ZK	5
32MC-P-OSPN-01	Personality: Pathology and Normality	KZ	3
32MC-P-PEDO-01	General Pedagogy	Z,ZK	5
32MC-P-PEDS-01	Social Pedagogy	ZK	3
32MC-P-PSEP-01	Psychology in Educational Process	Z,ZK	5
32MC-P-PSHY-01	Psycho-hygiene Aspects of Teaching Profession	Z,ZK	3
32MC-P-RIZZ-01	Risk Behavior of Pupils	KZ	3
32MC-P-SPKO-01	Social and Pedagogical Communication	KZ	3
32MC-P-TECR-01	Impacts of Information Technology on Society	Z,ZK	3
32MC-P-U SP-01	Role of Teachers in Modern Society	ZK	3
32ME-P-PRSK-01	Presentation and Communication Skills	ZK	4

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