

Study plan

Name of study plan: 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: Bachelor full-time

Required credits: 240

Elective courses credits: 0

Sum of credits in the plan: 240

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: 187

The role of the block: Z

Code of the group: BA20150100

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

Requirement credits in the group: In this group you have to gain 28 credits

Requirement courses in the group: In this group you have to complete at least 6 courses

Credits in the group: 28

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
101M1A	Mathematics 1A Ivana Pultarová, Jan Lama, Zdeněk Skalák, Milan Božík, Monika Rencová, Martin Soukenka, Martin Hála, Yuliya Namlyeyeva, Miloslav Vlasák, Zdeněk Skalák Zdeněk Skalák (Gar.)	Z,ZK	6	2P+2C	Z,L	Z
123SHMA	Building Materials Alena Vimmrová, Miloš Jerman, Eva Vejmelková Alena Vimmrová Alena Vimmrová (Gar.)	Z,ZK	3	2P+1C	Z	Z
124PSA1	Buildings 1 Petr Hájek, Jan Růžička, Magdaléna Novotná, Veronika Kaňková Petr Hájek Petr Hájek (Gar.)	Z,ZK	5	2P+2C	Z	Z
129AAKO	Architectural composition studio Klára Škodová, Petr Aster, Kamila Housová Mizerová, Richard Bartík, Libor Fránek, Helena Hexnerová, Hana Božíková, Jolana Hrochová, Tomáš Šunderlík, Zuzana Pešková Jaroslav Daňouš (Gar.)	KZ	4	3C	Z	Z
129GPA	Graphic Presentation of Architecture Petr Aster, Kamila Housová Mizerová, Vojtěch Dvořák, Jan Kašpar, Eva Antošová, Lucie Medová, Anna Marie Černá, Radek Macke, Ivo Chvojka, Zuzana Pešková Zuzana Pešková (Gar.)	KZ	5	5C	Z	Z
129UNA	Introduction to professional practise Václav Dvořák, Jaroslav Daňouš, Petr Lédl, Luboš Knytl, Michal Šourek, Petr Šíkola Petr Šíkola Petr Šíkola (Gar.)	ZK	5	4P	Z	Z

Characteristics of the courses of this group of Study Plan: Code=BA20150100 Name=Architektura a stavitelství, 1. semestr

101M1A	Mathematics 1A	Z,ZK	6
123SHMA	Building Materials	Z,ZK	3
Building materials - basic course. Classification of the materials. Structure of materials. Main properties of materials. Application of materials in building constructions. Introduction to material testing.			
124PSA1	Buildings 1	Z,ZK	5
129AAKO	Architectural composition studio	KZ	4
129GPA	Graphic Presentation of Architecture	KZ	5
The GPA course is divided into 2 parallel parts that complement each other. One part is dedicated to pictorial representation and is endowed with 3 hours per week. The second part is dedicated to mastering the basic tools for computer imaging and is subsidized by 2 hours. The focus of the first semester in the drawing part concerns the basics of architectural drawing and the method of representation - drawing objects in orthogonal, isometric and perspective form. Students will also learn to draw the staggered figure, drawing greenery and basic geometric solids. As a final presentation of each section (drawing, computer) students will produce a final poster consisting of a simple object set in an architectural space, including floor plans, views and sections. The poster also includes variant solutions of the architecture.			
129UNA	Introduction to professional practise	ZK	5

Code of the group: BA20150200

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

Requirement credits in the group: In this group you have to gain 27 credits

Requirement courses in the group: In this group you have to complete at least 6 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
101KGA1	Constructive Geometry A Iva Kivková, Iva Slámová, Iva Malechová, Hana Lakomá, Petra Vacková Iva Malechová Iva Malechová (Gar.)	Z,ZK	5	2P+2C	L,Z	z
101M2A	Mathematics 2A Ivana Pultarová, Jan Lama , Zdeněk Skalák, Monika Rencová, Martin Soukenka, Miloslav Vlasák, Aleš Nekvinda, Petr Kuera, Václav Kelar, Jozef Bobok Petr Kuera (Gar.)	Z,ZK	4	2P+2C	L,Z	z
124PSA2	Buildings 2 Magdaléna Novotná, Lenka Ingrišová, Aneta Libecajtová, Zuzana Ráčová, Tereza Pavl , Veronika Ka mařková, Jiří Pazderka, Eva Burgetová Tereza Pavl Jiří Pazderka (Gar.)	Z,ZK	5	2P+2C	L	z
129AKR	Architectural drawing Kamila Housová Mizerová, Jan Kašpar, Eva Antořová, Radek Macke, Ivo Chvojka, Ctibor Havelka, Vratislav Ševčík, Dalibor Smutný, Zuzana Pešková, Zuzana Pešková Zuzana Pešková (Gar.)	KZ	4	3C	L	z
129ATZ1	Introductory design studio 1 Petr Aster, Libor Fránek, Hana Bořková, Jolana Hrochová, Michal Blažek, Jan Kašpar, Václav Dvořák, Petra Novotná, Nikolaj Brankov, Jana Hořická Jana Hořická (Gar.)	KZ	4	4C	L	z
132SMA1	Structural Mechanics 1A Aleš Jíra, Jan Voříšek, Jaroslav Schmidt, Karel Pohl, Tomáš Koudelka, Petra Kálalová, Zdeněk Prošek Aleš Jíra	Z,ZK	5	2P+2C	L,Z	z

Characteristics of the courses of this group of Study Plan: Code=BA20150200 Name=Architektura a stavitelství, 2. semestr

101KGA1	Constructive Geometry A	Z,ZK	5
101M2A	Mathematics 2A	Z,ZK	4
124PSA2	Buildings 2	Z,ZK	5
Staircases, sloping ramps, lift shafts - requirements, structural and material solutions, basics of typology, design principles, construction details, railing. Building foundations - foundation conditions, types of foundations, requirements, building plinth area (construction details). Basement - solution of basement walls, requirements, protection against water, waterproofing systems. Structural expansion joints in buildings - principles of joints design in bearing structures, thermal expansion, compensation of differences in settlement, construction details. Roof truss systems.			
129AKR	Architectural drawing	KZ	4
In architectural drawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, scale and visual perspective. Models are first assemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place the drawing in the format and to use view, horizon and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The goal is to develop spatial vision and gain skills in drawing and sketching, which is indispensable as a means of communication in architectural design. Consistent attention is paid to aspects of shape and mass in space, the expression of light and shadow, plasticity, structure and differentiation of materials.			
129ATZ1	Introductory design studio 1	KZ	4
The semester programme is organised to introduce students to the architectural design process, simulating all the phases of the process with certain level of simplification: analysis and understanding of the assignment, formulating of the concept, design proposal, architectural detail, oral and graphic presentation etc. The subject of the design is a small object housing a simple function with elementary regulation. Final competences after passing the course are: Understanding the design process and its phases and creating a design proposal of a simple object			
132SMA1	Structural Mechanics 1A	Z,ZK	5

Code of the group: BA20150300

Name of the group: Architektura a stavitelství, 3. semestr

Requirement credits in the group: In this group you have to gain at least 28 credits

Requirement courses in the group: In this group you have to complete at least 6 courses

Credits in the group: 28

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
101M3A	Mathematics 3A Ivana Pultarová, Jan Lama , Zdeněk Skalák, Milan Bořík, Monika Rencová, Martin Soukenka, Aleš Nekvinda, Václav Kelar, Iva Malechová, Jozef Bobok Jozef Bobok (Gar.)	Z,ZK	4	1P+2C	Z	z
124SFA	Building Physics 1A Jaroslav Vychytil, Zbyněk Svoboda, Lenka Maierová, Pavel Kopecký Jaroslav Vychytil Jaroslav Vychytil (Gar.)	Z,ZK	7	4P+3C	Z	z

125TBA1	Building Services Systems 1 <i>Karel Kabele, Stanislav Frolík Hana Kabrhelová Karel Kabele (Gar.)</i>	Z,ZK	4	2P+2C	Z	z
129ATZ2	Introductory design studio 2 <i>Richard Bartík, Libor Fránek, Michal Blažek, Jana Hoická, Vojtěch Dvořák, Jan Kašpar, Petra Novotná, Jiří Trojan, Vojtěch Taraba, Jana Hoická Jana Hoická (Gar.)</i>	KZ	6	4C	Z	z
129NB01	Architectural typology 1 <i>Jana Hoická, Petra Novotná, Petr Lédl, Luboš Knytl Luboš Knytl Luboš Knytl (Gar.)</i>	Z,ZK	3	2P+1C	Z	z
132PRA	Strength of Materials A <i>Vít Šmilauer, Tomáš Janda, Eva Novotná Vít Šmilauer Vít Šmilauer (Gar.)</i>	Z,ZK	4	1P+2C	Z,L	z

Characteristics of the courses of this group of Study Plan: Code=BA20150300 Name=Architektura a stavitelství, 3. semestr

101M3A	Mathematics 3A	Z,ZK	4
124SFA	Building Physics 1A	Z,ZK	7
125TBA1	Building Services Systems 1 Basic course in building services systems - water supply, drainage, gas supply and heating systems.	Z,ZK	4
129ATZ2	Introductory design studio 2	KZ	6
129NB01	Architectural typology 1	Z,ZK	3
132PRA	Strength of Materials A	Z,ZK	4

Code of the group: BA20150400

Name of the group: Architektura a stavitelství, 4. 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 6 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
124PSA3	Buildings A3 <i>Lenka Hanzalová, Vladimír Žára Vladimír Žára Vladimír Žára (Gar.)</i>	Z,ZK	6	3P+2C	L	z
125TB2	Building Services Systems 2 <i>Stanislav Frolík, Hana Kabrhelová, Daniel Adamovský, Bohumír Garlík, Ilona Koubková Hana Kabrhelová Daniel Adamovský (Gar.)</i>	Z,ZK	4	2P+2C	L	z
129AT01	Design studio 1 <i>Richard Bartík, Libor Fránek, Helena Hexnerová, Jolana Hrochová, Jan Kašpar, B la Men lová, Ladislav Tichý, Pavel Filsak, Anna Marie erná, Petr Lédl Petr Šíkola (Gar.)</i>	KZ	6	6C	Z	z
129NB02	Architectural typology 2 <i>B la Men lová, Petr Lédl, Luboš Knytl, Jindřich Svatoš, Ladislav Kalivoda, Miloš Kopiva, Eva Kosíková, Pavla Grünerová Ladislav Kalivoda Luboš Knytl (Gar.)</i>	Z,ZK	5	3P+1C	L	z
132SMA2	Structural Mechanics 2A <i>Aleš Jíra, Vít Šmilauer, Eva Novotná, Jiří N me ek, Michael Somr, Jiří N me ek, Dagmar Jandeková Vít Šmilauer Vít Šmilauer (Gar.)</i>	Z,ZK	4	1P+2C	Z,L	z
154SGEA	Land Surveying <i>Tomáš K emen, Karel Pavelka, Jiří Cajthaml, Tomáš Janata Tomáš K emen Martin Štroner (Gar.)</i>	Z,ZK	5	2P+2C	L	z

Characteristics of the courses of this group of Study Plan: Code=BA20150400 Name=Architektura a stavitelství, 4. semestr

124PSA3	Buildings A3	Z,ZK	6
125TB2	Building Services Systems 2 This subject includes an introduction to ventilation and air conditioning in buildings and solutions for electric instalations and artificial lighting.	Z,ZK	4
129AT01	Design studio 1 Studio work is the subject of an application in which students are combining the lessons learned from a wide spectrum of architectural disciplines with their own opinion and artistic creativity. The subject of the award are residential houses and buildings for housing, located in a particular environment. Emphasis is placed on creativity of students, the relationship of the proposal on a specific urban environment and the realism and sophistication of the architectural and building technical solutions, quality, aesthetic design, including technical and material details. During the course held presentations on the current architecture, sub-award task-related issues, the consultation proposals. The project itself is processed at the level of architectural study. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.	KZ	6
129NB02	Architectural typology 2	Z,ZK	5
132SMA2	Structural Mechanics 2A	Z,ZK	4
154SGEA	Land Surveying Basic information on the Earth, angle and distance measurement, basics of geodetic calculation (traverse, intersection), determination of heights, basics of setting-out, maps for designing, basics of photogrammetry, basics of error theory and adjustment calculus, determination of areas and volumes, modern geodetic instruments and methods (electronic techeometers, GPS, laser scanners), basic geodetic rules.	Z,ZK	5

Code of the group: BA20190500

Name of the group: Architektura a stavitelství, 5. semestr

Requirement credits in the group: In this group you have to gain at least 24 credits (at most 0)

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
124PSA4	Buildings A4 Zuzana Ráčová, Václav Kupilík, Petr Hejtmánek, Martin Jiránek, Marek Pokorný, Daniela Šejnová Pítelková, Malila Noori Marek Pokorný Václav Kupilík (Gar.)	Z,ZK	5	2P+1C	Z	z
127UB01	Urban Planing 1 Ivan Kaplan, Václav Jetel Václav Jetel Ivan Kaplan (Gar.)	Z,ZK	6	2P+2C	Z	z
129DA01	History of Architecture 1 Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	ZK	3	2P	Z	z
129NB03	Architectural typology 3 Petra Novotná, Luboš Knytl, Nikola Puchelová, Eva Kosíková, Pavla Grünerová, Tomáš Šenberger Jana Hoická Luboš Knytl (Gar.)	Z	3	2P+1C	Z	z
133BZA1	Concrete and Masonry Structures in Architecture 1 Hana Hanzlová, Karel Šeps Hana Hanzlová Hana Hanzlová (Gar.)	Z,ZK	5	3P+1C	Z	z
135GEA	Geology Jan Jelínek, Svatoslav Chamra, Jan Schröfel, Richard Malát, Jan Valenta, Kateřina Kovářová Kateřina Kovářová Jan Valenta (Gar.)	Z,ZK	2	1P+1C	Z	z

Characteristics of the courses of this group of Study Plan: Code=BA20190500 Name=Architektura a stavitelství, 5. semestr

124PSA4	Buildings A4	Z,ZK	5
127UB01	Urban Planing 1	Z,ZK	6
129DA01	History of Architecture 1	ZK	3
129NB03	Architectural typology 3	Z	3
133BZA1	Concrete and Masonry Structures in Architecture 1	Z,ZK	5
135GEA	Geology	Z,ZK	2

Introduction to Geology Model of the Earth. Plate tectonics. Geological processes. Metamorphic, sedimentary processes. Lithology. Weathering. Pedology. Karst geology. Hydrogeology. Slope deformations. Risk evaluation.

Code of the group: BA20190600

Name of the group: Architektura a stavitelství, 6. semestr

Requirement credits in the group: In this group you have to gain at least 20 credits (at most 0)

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

Credits in the group: 20

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
127UR2B	Urban Planning 2 Václav Jetel, Karín Dvořáková, Jiří Kupka, Tereza Švárová, Zuzana Boušková Jiří Kupka Jiří Kupka (Gar.)	Z,ZK	4	2P+1C	L	z
129DA02	History of Architecture 2 Josef Záruba Pfeffermann, Rudolf Pošva Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	ZK	3	2P	Z	z
133BZA2	Concrete and Masonry Structures in Architecture 2 Hana Hanzlová, Karel Šeps Hana Hanzlová Hana Hanzlová (Gar.)	Z,ZK	5	3P+1C	L	z
135MZA	Soil mechanics and foundation engineering Jan Záleský, Josef Jettmar, Jan Salák Jan Záleský Jan Záleský (Gar.)	Z,ZK	4	2P+2C	L	z
134DOA1	Steel and Timber Structures in Architecture 1 Michal Jandera Michal Jandera Michal Jandera (Gar.)	Z,ZK	4	2P+2C	L	z

Characteristics of the courses of this group of Study Plan: Code=BA20190600 Name=Architektura a stavitelství, 6. semestr

127UR2B	Urban Planning 2	Z,ZK	4
129DA02	History of Architecture 2	ZK	3
133BZA2	Concrete and Masonry Structures in Architecture 2	Z,ZK	5
135MZA	Soil mechanics and foundation engineering	Z,ZK	4
134DOA1	Steel and Timber Structures in Architecture 1	Z,ZK	4

Students learn the steel elements supporting structures, manufacturing, designing of beams, columns, joints, and ocelobetonovými structures, basic fire design and corrosion protection. the multi-storey buildings and halls are introduced.

Code of the group: BA20150700

Name of the group: Architektura a stavitelství, 7. 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 8 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
122TS1A	Technology of Construction <i>Pavel Neumann, Tomáš Váchal, Václav Pospíchal, Rostislav Šulc, Michal Kovák ik Rostislav Šulc Václav Pospíchal (Gar.)</i>	Z,ZK	4	2P+1C	Z	z
126MMA2	Economics and Management <i>Petr Matjka, Dana Mšánová, Václav Tatýrek Václav Tatýrek Václav Tatýrek (Gar.)</i>	Z,ZK	5	2P+2C	L	z
126SPSK	Construction law, tenders and contracts <i>Dana Mšánová Dana Mšánová Dana Mšánová (Gar.)</i>	Z	2	2P	Z	z
129ATV4	Design studio (Constructional Design) <i>Jan Ržika, Pavel Filsak, Štěpán Lajda, Lenka Maierová, Karel Kabele, Stanislav Frolík, Martin Stark, Ladislav Kalivoda, Ctislav Fiala, Jan Ržika Jan Ržika (Gar.)</i>	KZ	9	6C	Z,L	z
129DA03	History of Architecture 3 <i>Lenka Popelová, Petr Urlich Petr Urlich Radomíra Sedláková (Gar.)</i>	ZK	4	2P	Z	z
134ODA2	Steel and Timber Structures in Architecture 2 <i>Jakub Dolejš Jakub Dolejš Jakub Dolejš (Gar.)</i>	Z,ZK	4	2P+1C	Z	z
136DSA	Road and Rail Construction <i>Ludvík Věbr, Leoš Horníek, Michal Uhlík, Michal Weber, Jaromíra Ježková Michal Uhlík Ludvík Věbr (Gar.)</i>	Z	2	1P+1C	Z	z
100ODPR	Industrial Training (3 weeks) <i>Petr Hájek, Jan Ržika Michal Jandera Michal Jandera (Gar.)</i>	Z	0	6C	Z,L	z

Characteristics of the courses of this group of Study Plan: Code=BA20150700 Name=Architektura a stavitelství, 7. semestr

122TS1A	Technology of Construction	Z,ZK	4
Earthwork, design of pit excavation and supporting's technologies. Design of formwork. Concrete mixer plant, concrete conveying, concreting. Brickwork's technologies, Roofing work, tin work.			
126MMA2	Economics and Management	Z,ZK	5
Construction, civil engineering and construction work. Life cycle of building and project. Construction projects and documentation. Participants on construction projects. Determining the cost of construction. Total construction costs. Scheduling and network analysis. Valuation of works and budgeting. Costing and bid price. Production calculation. Calculation methods. Public revenues and tax system. Awarding construction contracts. Public business competition. Contract - clauses additions. Construction business. Organizational structure and management of construction firm. Supply Management. Marketing of construction firm. Making management structures. Controlling. Site manager, foreman, technical supervision, cost and author. Control days. Construction diary. Executed work and supplies quality. Production invoice and final calculation. Changes and additions to the budget. Building handover and acceptance. Investment effectiveness, Construction project evaluation. Marketing. Building changes prior completion, building handover and acceptance, handover documentation. Decision processes. Invested energy. BOM. Audit, Documentation rules. Insolvency, RIPRAN, LEED, BREEAM. Documentation rules, Insolvency law.			
126SPSK	Construction law, tenders and contracts	Z	2
Commercial contractual relationships, definition of the terms, participants - entrepreneurs. Legal acts, making a contract, forms of the contracts, usage of the general commercial conditions, term of acceptance of the proposal for conclusion a contract. Public tender and its impact on the liabilities of the participants. Securing of a liability - penalty, pledge. Avoidance of contract, conditions and consequences of the avoidance. Compensation for a damage, content and extent of the compensation. Forfeiture and its consequences, prescription period. Main contractual types used in construction. Contract of the conclusion of a future contract, its principles and meaning. Contract of sale, its usage for construction purposes and basic contents - object of performance, price, liability for defects, guarantee. Contract for work, its usage in the preparation and realization of the buildings - for survey ensuring, project documentation, buildings, assembling. Contents of the contract.			
129ATV4	Design studio (Constructional Design)	KZ	9
The subject of the Design studio 4 is an architectural development of selected studies from ATV 1 (residential buildings), ATV2 (small civil building) or ATV3 (large civil building), a detailed structural design of the whole or selected parts, including construction and architectural details, static pre-calculation of the development of selected general plan of construction and building equipment, specifying the specific parts. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.			
129DA03	History of Architecture 3	ZK	4
134ODA2	Steel and Timber Structures in Architecture 2	Z,ZK	4
The course introduces students to the static and structural design of timber structures in civil engineering. Material properties, the design rules according to European standards and principles of good structural design are presented within the course.			
136DSA	Road and Rail Construction	Z	2
100ODPR	Industrial Training (3 weeks)	Z	0

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 6

The role of the block: PV

Code of the group: BA20180800_2

Name of the group: Architektura a stavitelství, povinn volitelné p edm ty, 8. semestr

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 3 courses

Credits in the group: 6

Note on the group:

doplnění 129YPSA

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
105YSAS	Sociology and Psychology <i>Monika Dobiášová Monika Dobiášová Monika Dobiášová (Gar.)</i>	Z	2	1P+1C		PV
123YSHA	Bulding Materials in Architecture <i>Alena Vimmrová, Martin Böhm, Klára Kobeti ová, Dana N mcová Alena Vimmrová Alena Vimmrová (Gar.)</i>	Z	2	1P+1C	L	PV
124YDRS	Timber Buildings <i>Jan R ži ka, Jaroslav Vychytil, Marek Pokorný, Milan Peukert, Kamil Stan k Jan R ži ka Jan R ži ka (Gar.)</i>	Z	2	1P+1C	L	PV
124YKSD	Complex Structural Detail <i>Ji í Pazderka, Radek Zigler Ji í Pazderka Ji í Pazderka (Gar.)</i>	Z	2	1P+1C	Z	PV
125YNST	HVAC and services design <i>Stanislav Frolík, Hana Kabrhelová, Ilona Koubková Hana Kabrhelová Stanislav Frolík (Gar.)</i>	Z	2	1P+1C	Z,L	PV
125YPMT	Building services systems CAD, modelling and simulation <i>Karel Kabele, Stanislav Frolík, Hana Kabrhelová, Ilona Koubková, Kate ina Šenfeld Karel Kabele Karel Kabele (Gar.)</i>	Z	2	2C	Z,L	PV
126YVSF	Small Business Management <i>Jana Frková, Olga Heralová Jana Frková (Gar.)</i>	Z	2	1P+1C	Z,L	PV
127YSUP	Landscape Planning (seminar) <i>Dušana Andrášová, Vojt ch Ko alka, František Brynda František Pospíšil František Pospíšil (Gar.)</i>	Z	2	2C	L	PV
127YUR3	Urban Planning 3 <i>Václav Jetel, František Pospíšil, Petr Durdík František Pospíšil Petr Durdík (Gar.)</i>	Z	2	2P	L	PV
129YDA4	History of Architecture 4 <i>Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)</i>	Z	2	2C	L	PV
129YOPA	Heritage preservation <i>Klára Kroftová Klára Kroftová Klára Kroftová (Gar.)</i>	Z	2	2P	L	PV
129YPSA	Psychology of Architecture <i>Karel Smejkal, Iva Be ová Karel Smejkal Karel Smejkal (Gar.)</i>	Z	2	1P+1C	L	PV
132YKPA	Statics for Architecture <i>Aleš Jíra, František Denk František Denk Aleš Jíra (Gar.)</i>	Z	2	1P+1C	L	PV
133YBKC	Computer design of concrete structures C <i>Petr Bílý, Jakub Holan, Radek Štefan Petr Bílý Petr Bílý (Gar.)</i>	Z	2	2C	Z,L	PV
134YNKS	Glass Structures <i>Martina Eliášová Martina Eliášová Martina Eliášová (Gar.)</i>	Z	2	1P+1C	L	PV
135YKA	Stones in architecture <i>Svatoslav Chamra, Kate ina Ková ová Svatoslav Chamra Svatoslav Chamra (Gar.)</i>	Z	2	1P+1C	L	PV

Characteristics of the courses of this group of Study Plan: Code=BA20180800_2 Name=Architektura a stavitelství, povinn volitelné p edm ty, 8. semestr

105YSAS	Sociology and Psychology	Z	2	The subject is conceived as a synthesis of selected chapters from psychology and sociology. He deals with the psychology of work and organization, managerial psychology, social psychology and the use of psychology in corporate communication. In the part of sociology, attention is focused on the sociology of the city and the region, the sociology of housing and selected themes from sociology of the company.
123YSHA	Bulding Materials in Architecture	Z	2	Deeper knowledge of building materials from the point of view of their architectural properties. New structural materials, composite materials, smart materials. Materials for exterior and interior surfaces. Choice of suitable material. Laboratory tests of some material properties - durability, frost resistance, water absorption, hardness.
124YDRS	Timber Buildings	Z	2	
124YKSD	Complex Structural Detail	Z	2	
125YNST	HVAC and services design	Z	2	Basic principles of the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amount of ventilation air, design of air-handling unit and design of indoor systems.
125YPMT	Building services systems CAD, modelling and simulation	Z	2	Introductory course in computer aided modelling and design of building services systems.
126YVSF	Small Business Management	Z	2	The aim of the subject is to provide information necessary for entrepreneurial activity and to support and develop students' entrepreneurial thinking. Provide an objective and comprehensive view of business in the Czech Republic. Point out the business mistakes that cause high mortality. Students will acquire the knowledge necessary for establishing various forms of business subjects, knowledge necessary for orientation in tax matters, insurance payments, labor law relations. Topics: Modern business history, business environment in the Czech Republic and comparison with other countries. Small Business Specifics - Benefits - Disadvantages - Opportunities - Threats. Successful entrepreneurs and their secrets of success. The personality of the entrepreneur and the reasons for his failure. The life cycle of a small business and the crisis of growth. Building a small business. Management and planning in a small business. Leadership. Business idea, vision and mission. Business plan. Intuitive marketing. Financial resources for business. Establishment of a business entity - legal minimum. Issues of income tax and VAT, social and health insurance business - tax minimum.
127YSUP	Landscape Planning (seminar)	Z	2	The course gives a comprehensive idea of procedures in land-use planning on specific examples, where students individually process the individual phases of the land-use planning process from the analysis of the territory to a simple design and its transcription into the regulation of the territory. Successful completion of the course will replace the independent compulsory seminar work of the subject YUR3.

127YUR3	Urban Planning 3	Z	2
Topic subject of the learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague. Other topics are concerned present construction law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of competences in the processes of plan procurement.			
129YDA4	History of Architecture 4	Z	2
129YOPA	Heritage preservation	Z	2
129YPSA	Psychology of Architecture	Z	2
The aim is to develop the knowledge of architecture students in the context of Applied Psychology of Architecture, which was developed at our faculty and which is not yet taught in this form at any technical university in the world. Graduates of the Applied Psychology of Architecture course can then go on to the follow-up course Psychological Aspects of Communication in Architecture.			
132YKPA	Statics for Architecture	Z	2
133YBKC	Computer design of concrete structures C	Z	2
134YNKS	Glass Structures	Z	2
The course is intending to introduce the students the field of structural applications of glass and to give them some specific skills for calculation and detailing of for basic glass structures: panes beams and fins, columns and walls, point-supported glass, as well as for glazing systems such as glass facades, canopies and roofs, stairs and floors. On this purpose the properties of glass as structural material will be presented in comparison with other basic building materials, together with selected examples of glass/glazing applications. Design details and connecting technology, relevant technical regulations, specification and current methods applied in design will be described. Worked examples will accompany the lectures for better understanding, and design project will help to fix specific knowledge.			
135YKA	Stones in architecture	Z	2

Name of the block: Povinná t lesná výchova, sportovní kurzy

Minimal number of credits of the block: 0

The role of the block: PT

Code of the group: BTV_POV

Name of the group: Povinná t lesná výchova

Requirement credits in the group:

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

Credits in the group: 0

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
TV1	Physical Education	Z	0	0+2	Z	PT
TV2	Physical Education	Z	0	0+2	L	PT

Characteristics of the courses of this group of Study Plan: Code=BTV_POV Name=Povinná t lesná výchova

TV1	Physical Education	Z	0
TV2	Physical Education	Z	0

Name of the block: Elective courses

Minimal number of credits of the block: 0

The role of the block: V

Code of the group: BA20150300_V

Name of the group: volitelné p edm ty pro program Architektura a stavitelství

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

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
129XA3K	Architectural Drawing 1 Ctibor Havelka, Vratislav Šev ík Marie Tulá ková	KZ	1	3C		V
129XA4K	Plein Air Drawing (1 week) Kamila Housová Mizerová, Jan Kašpar, Vratislav Šev ík, Zuzana Pešková Zuzana Pešková Zuzana Pešková (Gar.)	Z	1	2C	L	V

Characteristics of the courses of this group of Study Plan: Code=BA20150300_V Name=volitelné p edm ty pro program Architektura a stavitelství

129XA3K	Architectural Drawing 1	KZ	1
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129XA4K	Plein Air Drawing (1 week)	Z	1
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Name of the block: Compulsory elective courses

Minimal number of credits of the block: 4

The role of the block: S

Code of the group: BA20150100_1

Name of the group: Architektura a stavitelství, povinn volitelný p edm t, 1. semestr

Requirement credits in the group: In this group you have to gain 2 credits

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

Credits in the group: 2

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
101YPZO	Computer Modelling of Objects Iva Malechová, Hana Lakomá Hana Lakomá Hana Lakomá (Gar.)	Z	2	2C	Z	s
105YPDF	Digital Photography Miloš Sedlá ek Michal Chalupa Miloš Sedlá ek (Gar.)	Z	2	2C	Z	s
105YPRA	Law (general) Pavla Vo íšková Pavla Vo íšková Pavla Vo íšková (Gar.)	Z	2	2P	Z	s
105YRET	Rhetoric Jitka Cirklová Jitka Cirklová Jitka Cirklová (Gar.)	Z	2	2C	Z,L	s
124YZSK	Plotting of Building Structures Michal Ženíšek Jan R ži ka Jan R ži ka (Gar.)	Z	2	2C	Z	s

Characteristics of the courses of this group of Study Plan: Code=BA20150100_1 Name=Architektura a stavitelství, povinn volitelný p edm t, 1. semestr

101YPZO	Computer Modelling of Objects	Z	2
105YPDF	Digital Photography	Z	2

In the introduction, the basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the entire system. Further lessons will be devoted to the construction and control of photographic equipment and general and specific imaging techniques for various photodocumentation areas. We also pay special attention to digital image processing, basic optimization and advanced editing techniques. The basic software tools will be Adobe Photoshop and Camera RAW. After mastering the techniques of building a photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, compositional patterns and the possibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will lead the listener to master all the means of photography and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the course is quite practical, seminar, atelier. Some tasks will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discussed in the group. The tutorial will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture.

105YPRA	Law (general)	Z	2
105YRET	Rhetoric	Z	2
124YZSK	Plotting of Building Structures	Z	2

Code of the group: BA20190200_1

Name of the group: Architektura a stavitelství, po íta ová grafika, 2. semestr

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 1)

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

Credits in the group: 2

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
129YGA1	ArchiCad 1 - Elementary Anna Marie erná, Martin Sou ek, Vladimír Hamata, Jakub Mizera	Z	2	2C	L,Z	s
129YGA2	ArchiCad 2 - Advanced Vladimír Hamata	Z	2	2C	L,Z	s
129YGCI	Cinema Jan Dvo ák	Z	2	2C	L,Z	s
129YGRE	Revit Jakub Pospíšil Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	s
129YG3D	3D Max Vojt ch Dvo ák Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	s

Characteristics of the courses of this group of Study Plan: Code=BA20190200_1 Name=Architektura a stavitelství, po íta ová grafika, 2. semestr

129YGA1	ArchiCad 1 - Elementary	Z	2
129YGA2	ArchiCad 2 - Advanced	Z	2
129YGCI	Cinema	Z	2
129YGRE	Revit	Z	2
129YG3D	3D Max	Z	2

Name of the block: Jazyky

Minimal number of credits of the block: 3

The role of the block: J

Code of the group: BF20190201_J

Name of the group: Povinn volitelný jazyk, 2. semestr

Requirement credits in the group: In this group you have to gain at least 1 credit

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

Credits in the group: 1

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
104YCA1	English 1 Petra Martincová, Vraěrmáková, Petra Florianová, Sandra Giormani, Svatava Boboková-Bartíková, Hana Horká, Jarmila Fuěíková, Anna Študentová, Michaela Németh, Svatava Boboková-Bartíková Sandra Giormani (Gar.)	Z	1	2C	Z,L	J
104YCN1	German 1 Svatava Boboková-Bartíková Svatava Boboková-Bartíková Svatava Boboková-Bartíková (Gar.)	Z	1	2C	Z,L	J

Characteristics of the courses of this group of Study Plan: Code=BF20190201_J Name=Povinn volitelný jazyk, 2. semestr

104YCA1	English 1	Z	1
104YCN1	German 1	Z	1

Code of the group: BF20190302_J

Name of the group: Povinn volitelný jazyk, 3. semestr

Requirement credits in the group: In this group you have to gain at least 2 credits

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

Credits in the group: 2

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
104YC2A	English 2 Renáta Nivenová, Petra Martincová, Šárka Chroustová, Vraěrmáková, Petra Florianová, Sandra Giormani, Svatava Boboková-Bartíková, Hana Horká, Jarmila Fuěíková, Svatava Boboková-Bartíková Svatava Boboková-Bartíková (Gar.)	Z,ZK	2	2C		J
104YC2N	German 2 Helena Chromá, Svatava Boboková-Bartíková Olga Sedláková Svatava Boboková-Bartíková (Gar.)	Z,ZK	2	2C		J

Characteristics of the courses of this group of Study Plan: Code=BF20190302_J Name=Povinn volitelný jazyk, 3. semestr

104YC2A	English 2	Z,ZK	2
104YC2N	German 2	Z,ZK	2

Name of the block: Alternativní p edm ty

Minimal number of credits of the block: 16

The role of the block: OO

Code of the group: BA20190500_1

Name of the group: volba atelieru, 5. semestr

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 1 course

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
129AT02	Design studio 2 Libor Fránek, Helena Hexnerová, Jana Hoická, Petra Novotná, Luboš Knytl, Petr Šíkola, Zdeněk Jiran, Mikuláš Hulec, Matěj Boháč, Jana Hoická Petr Šíkola (Gar.)	KZ	6	6C	Z	00
129IAS2	International Design Studio 2 Hana Bořilová, Eva Linhartová, Ondřej Zdobinský, Michal Hlaváček	KZ	6	6C	Z	00

Characteristics of the courses of this group of Study Plan: Code=BA20190500_1 Name=volba atelieru, 5. semestr

129AT02	Design studio 2	KZ	6
129IAS2	International Design Studio 2	KZ	6

Code of the group: BA20190600_1

Name of the group: volba atelieru, 6. semestr

Requirement credits in the group: In this group you have to gain at least 10 credits

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

Credits in the group: 10

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
129ATA3	Design studio 3 Vojtěch Dvořák, Jiří Trojan, Petr Lédl, Luboš Knytl, Jindřich Svatoš, Eva Linhartová, Jakub Zoula, Petra Lenz, Štěpánka Hájková, Petr Lédl Petr Lédl (Gar.)	KZ	10	8C	L	00
129IAS3	International Architectural Studio 3 Eva Linhartová, Michal Hlaváček Eva Linhartová Michal Hlaváček (Gar.)	KZ	10	8C	L	00

Characteristics of the courses of this group of Study Plan: Code=BA20190600_1 Name=volba atelieru, 6. semestr

129ATA3	Design studio 3	KZ	10
Studio work is the subject of an application in which students are combining the lessons learned from a wide spectrum of architectural disciplines with their own opinion and artistic creativity. In this third design studio students deal with various types of civil buildings with more complicated service and ambitious operation site with more complicated relationships. After a broad discussion, reflection and assessments of structures built on similar topics, students submit their own proposals in the form of architectural study. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.			
129IAS3	International Architectural Studio 3	KZ	10

Name of the block: Povinný volitelný předmět, doporučení S1

Minimal number of credits of the block: 24

The role of the block: S1

Code of the group: BA20180800_1

Name of the group: Architektura a stavitelství, bakalářská práce

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 1 course

Credits in the group: 24

Note on the group:

xxxBPAA Bakalářská práce

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
124BPAA	Bachelor Thesis Jaroslav Vychytil, Kateřina Mertenová	Z	24	16C	L,Z	S1
125BPAA	Bachelor Thesis Hana Kabrhelová	Z	24	16C	L,Z	S1
127BPAA	Bachelor Thesis Jiří Kupka	Z	24	16C	L,Z	S1
129BPAA	Bachelor Thesis Helena Hexnerová, Vojtěch Dvořák, Ladislav Tichý, Václav Dvořák, Petra Novotná, Jaroslav Daňo, Vojtěch Taraba, Zuzana Pešková, Petr Lédl, Mikuláš Hulec Mikuláš Hulec (Gar.)	Z	24	16C	L,Z	S1

Characteristics of the courses of this group of Study Plan: Code=BA20180800_1 Name=Architektura a stavitelství, bakalářská práce

124BPAA	Bachelor Thesis	Z	24
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125BPAA	Bachelor Thesis	Z	24
127BPAA	Bachelor Thesis	Z	24
129BPAA	Bachelor Thesis	Z	24

List of courses of this pass:

Code	Name of the course	Completion	Credits
100ODPR	Industrial Training (3 weeks)	Z	0
101KGA1	Constructive Geometry A	Z,ZK	5
101M1A	Mathematics 1A	Z,ZK	6
101M2A	Mathematics 2A	Z,ZK	4
101M3A	Mathematics 3A	Z,ZK	4
101YPZO	Computer Modelling of Objects	Z	2
104YC2A	English 2	Z,ZK	2
104YC2N	German 2	Z,ZK	2
104YCA1	English 1	Z	1
104YCN1	German 1	Z	1
105YPDF	Digital Photography	Z	2
<p>In the introduction, the basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the entire system. Further lessons will be devoted to the construction and control of photographic equipment and general and specific imaging techniques for various photodocumentation areas. We also pay special attention to digital image processing, basic optimization and advanced editing techniques. The basic software tools will be Adobe Photoshop and Camera RAW. After mastering the techniques of building a photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, compositional patterns and the possibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will lead the listener to master all the means of photography and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the course is quite practical, seminar, atelier. Some tasks will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discussed in the group. The tutorial will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture.</p>			
105YPRA	Law (general)	Z	2
105YRET	Rhetoric	Z	2
105YSAS	Sociology and Psychology	Z	2
<p>The subject is conceived as a synthesis of selected chapters from psychology and sociology. He deals with the psychology of work and organization, managerial psychology, social psychology and the use of psychology in corporate communication. In the part of sociology, attention is focused on the sociology of the city and the region, the sociology of housing and selected themes from sociology of the company.</p>			
122TS1A	Technology of Construction	Z,ZK	4
<p>Earthwork, design of pit excavation and supporting's technologies. Design of formwork. Concrete mixer plant, concrete conveying, concreting. Brickwork's technologies, Roofing work, tin work.</p>			
123SHMA	Building Materials	Z,ZK	3
<p>Building materials - basic course. Clasification of the materials. Structure of materials. Main properties of materials. Application of materials in building constructions. Introduction to material testing.</p>			
123YSHA	Bulding Materials in Architecture	Z	2
<p>Deeper knowledge of building materials from the point of view of their architectural properties. New structural materials, composite materials, smart materials. Materials for exterior and interior surfaces. Choice of suitable material. Laboratory tests of some material properties - durability, frost resistance, water absorption, hardness.</p>			
124BPAA	Bachelor Thesis	Z	24
124PSA1	Buildings 1	Z,ZK	5
124PSA2	Buildings 2	Z,ZK	5
<p>Staircases, sloping ramps, lift shafts - requirements, structural and material solutions, basics of typology, design principles, construction details, railing. Building foundations - foundation conditions, types of foundations, requirements, building plinth area (construction details). Basement - solution of basement walls, requirements, protection against water, waterproofing systems. Structural expansion joints in buildings - principles of joints design in bearing structures, thermal expansion, compensation of differences in settlement, construction details. Roof truss systems.</p>			
124PSA3	Buildings A3	Z,ZK	6
124PSA4	Buildings A4	Z,ZK	5
124SFA	Building Physics 1A	Z,ZK	7
124YDRS	Timber Buildings	Z	2
124YKSD	Complex Structural Detail	Z	2
124YZSK	Plotting of Building Structures	Z	2
125BPAA	Bachelor Thesis	Z	24
125TB2	Building Services Systems 2	Z,ZK	4
<p>This subject includes an introduction to ventilation and air conditioning in buildings and solutions for electric instalations and artificial lighting.</p>			
125TBA1	Building Services Systems 1	Z,ZK	4
<p>Basic course in building services systems - water supply, drainage, gas supply and heating systems.</p>			
125YNST	HVAC and services design	Z	2
<p>Basic principles of the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amount of ventilation air, design of air-handling unit and design of indoor systems.</p>			

125YPMT	Building services systems CAD, modelling and simulation Introductory course in computer aided modelling and design of building services systems.	Z	2
126MMA2	Economics and Management Construction, civil engineering and construction work. Life cycle of building and project. Construction projects and documentation. Participants on construction projects. Determining the cost of construction. Total construction costs. Scheduling and network analysis. Valuation of works and budgeting. Costing and bid price. Production calculation. Calculation methods. Public revenues and tax system. Awarding construction contracts. Public business competition. Contract - clauses additions. Construction business. Organizational structure and management of construction firm. Supply Management. Marketing of construction firm. Making management structures. Controlling. Site manager, foreman, technical supervision, cost and author. Control days. Construction diary. Executed work and supplies quality. Production invoice and final calculation. Changes and additions to the budget. Building handover and acceptance. Investment effectiveness, Construction project evaluation. Marketing. Building changes prior completion, building handover and acceptance, handover documentation. Decision processes. Invested energy. BOM. Audit, Documentation rules. Insolvency, RIPRAN, LEED, BREEAM. Documentation rules, Insolvency law.	Z,ZK	5
126SPSK	Construction law, tenders and contracts Commercial contractual relationships, definition of the terms, participants - entrepreneurs. Legal acts, making a contract, forms of the contracts, usage of the general commercial conditions, term of acceptance of the proposal for conclusion a contract. Public tender and its impact on the liabilities of the participants. Securing of a liability - penalty, pledge. Avoidance of contract, conditions and consequences of the avoidance. Compensation for a damage, content and extent of the compensation. Forfeiture and its consequences, prescription period. Main contractual types used in construction. Contract of the conclusion of a future contract, its principles and meaning. Contract of sale, its usage for construction purposes and basic contents - object of performance, price, liability for defects, guarantee. Contract for work, its usage in the preparation and realization of the buildings - for survey ensuring, project documentation, buildings, assembling. Contents of the contract.	Z	2
126YVSF	Small Business Management The aim of the subject is to provide information necessary for entrepreneurial activity and to support and develop students' entrepreneurial thinking. Provide an objective and comprehensive view of business in the Czech Republic. Point out the business mistakes that cause high mortality. Students will acquire the knowledge necessary for establishing various forms of business subjects, knowledge necessary for orientation in tax matters, insurance payments, labor law relations. Topics: Modern business history, business environment in the Czech Republic and comparison with other countries. Small Business Specifics - Benefits - Disadvantages - Opportunities - Threats. Successful entrepreneurs and their secrets of success. The personality of the entrepreneur and the reasons for his failure. The life cycle of a small business and the crisis of growth. Building a small business. Management and planning in a small business. Leadership. Business idea, vision and mission. Business plan. Intuitive marketing. Financial resources for business. Establishment of a business entity - legal minimum. Issues of income tax and VAT, social and health insurance business - tax minimum.	Z	2
127BPAA	Bachelor Thesis	Z	24
127UB01	Urban Planning 1	Z,ZK	6
127UR2B	Urban Planning 2	Z,ZK	4
127YSUP	Landscape Planning (seminar) The course gives a comprehensive idea of procedures in land-use planning on specific examples, where students individually process the individual phases of the land-use planning process from the analysis of the territory to a simple design and its transcription into the regulation of the territory. Successful completion of the course will replace the independent compulsory seminar work of the subject YUR3.	Z	2
127YUR3	Urban Planning 3 Topic subject of the learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague. Other topics are concerned present construction law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of competences in the processes of plan procurement.	Z	2
129AAKO	Architectural composition studio	KZ	4
129AKR	Architectural drawing In architectural drawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, scale and visual perspective. Models are first assemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place the drawing in the format and to use view, horizon and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The goal is to develop spatial vision and gain skills in drawing and sketching, which is indispensable as a means of communication in architectural design. Consistent attention is paid to aspects of shape and mass in space, the expression of light and shadow, plasticity, structure and differentiation of materials.	KZ	4
129AT01	Design studio 1 Studio work is the subject of an application in which students are combining the lessons learned from a wide spectrum of architectural disciplines with their own opinion and artistic creativity. The subject of the award are residential houses and buildings for housing, located in a particular environment. Emphasis is placed on creativity of students, the relationship of the proposal on a specific urban environment and the realism and sophistication of the architectural and building technical solutions, quality, aesthetic design, including technical and material details. During the course held presentations on the current architecture, sub-award task-related issues, the consultation proposals. The project itself is processed at the level of architectural study. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.	KZ	6
129AT02	Design studio 2	KZ	6
129ATA3	Design studio 3 Studio work is the subject of an application in which students are combining the lessons learned from a wide spectrum of architectural disciplines with their own opinion and artistic creativity. In this third design studio students deal with various types of civil buildings with more complicated service and ambitious operation site with more complicated relationships. After a broad discussion, reflection and assessments of structures built on similar topics, students submit their own proposals in the form of architectural study. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.	KZ	10
129ATV4	Design studio (Constructional Design) The subject of the Design studio 4 is an architectural development of selected studies from ATV 1 (residential buildings), ATV2 (small civil building) or ATV3 (large civil building), a detailed structural design of the whole or selected parts, including construction and architectural details, static pre-calculation of the development of selected general plan of construction and building equipment, specifying the specific parts. Foreign and Czech students are teaching together in order to get opportunity to debate architectonic issues.	KZ	9
129ATZ1	Introductory design studio 1 The semester programme is organised to introduce students to the architectural design process, simulating all the phases of the process with certain level of simplification: analysis and understanding of the assignment, formulating of the concept, design proposal, architectural detail, oral and graphic presentation etc. The subject of the design is a small object housing a simple function with elementary regulation. Final competences after passing the course are: Understanding the design process and its phases and creating a design proposal of a simple object	KZ	4
129ATZ2	Introductory design studio 2	KZ	6
129BPAA	Bachelor Thesis	Z	24
129DA01	History of Architecture 1	ZK	3
129DA02	History of Architecture 2	ZK	3
129DA03	History of Architecture 3	ZK	4

129GPA	Graphic Presentation of Architecture	KZ	5
The GPA course is divided into 2 parallel parts that complement each other. One part is dedicated to pictorial representation and is endowed with 3 hours per week. The second part is dedicated to mastering the basic tools for computer imaging and is subsidized by 2 hours. The focus of the first semester in the drawing part concerns the basics of architectural drawing and the method of representation - drawing objects in orthogonal, isometric and perspective form. Students will also learn to draw the staggered figure, drawing greenery and basic geometric solids. As a final presentation of each section (drawing, computer) students will produce a final poster consisting of a simple object set in an architectural space, including floor plans, views and sections. The poster also includes variant solutions of the architecture.			
129IAS2	International Design Studio 2	KZ	6
129IAS3	International Architectural Studio 3	KZ	10
129NB01	Architectural typology 1	Z,ZK	3
129NB02	Architectural typology 2	Z,ZK	5
129NB03	Architectural typology 3	Z	3
129UNA	Introduction to professional practise	ZK	5
129XA3K	Architectural Drawing 1	KZ	1
129XA4K	Plein Air Drawing (1 week)	Z	1
129YDA4	History of Architecture 4	Z	2
129YG3D	3D Max	Z	2
129YGA1	ArchiCad 1 - Elementary	Z	2
129YGA2	ArchiCad 2 - Advanced	Z	2
129YGCI	Cinema	Z	2
129YGRE	Revit	Z	2
129YOPA	Heritage preservation	Z	2
129YPSA	Psychology of Architecture	Z	2
The aim is to develop the knowledge of architecture students in the context of Applied Psychology of Architecture, which was developed at our faculty and which is not yet taught in this form at any technical university in the world. Graduates of the Applied Psychology of Architecture course can then go on to the follow-up course Psychological Aspects of Communication in Architecture.			
132PRA	Strength of Materials A	Z,ZK	4
132SMA1	Structural Mechanics 1A	Z,ZK	5
132SMA2	Structural Mechanics 2A	Z,ZK	4
132YKPA	Statics for Architecture	Z	2
133BZA1	Concrete and Masonry Structures in Architecture 1	Z,ZK	5
133BZA2	Concrete and Masonry Structures in Architecture 2	Z,ZK	5
133YBKC	Computer design of concrete structures C	Z	2
134DOA1	Steel and Timber Structures in Architecture 1	Z,ZK	4
Students learn the steel elements supporting structures, manufacturing, designing of beams, columns, joints, and ocelobetonovými structures, basic fire design and corrosion protection. the multi-storey buildings and halls are introduced.			
134ODA2	Steel and Timber Structures in Architecture 2	Z,ZK	4
The course introduces students to the static and structural design of timber structures in civil engineering. Material properties, the design rules according to European standards and principles of good structural design are presented within the course.			
134YNKS	Glass Structures	Z	2
The course is intending to introduce the students the field of structural applications of glass and to give them some specific skills for calculation and detailing of for basic glass structures: panes beams and fins, columns and walls, point-supported glass, as well as for glazing systems such as glass facades, canopies and roofs, stairs and floors. On this purpose the properties of glass as structural material will be presented in comparison with other basic building materials, together with selected examples of glass/glazing applications. Design details and connecting technology, relevant technical regulations, specification and current methods applied in design will be described. Worked examples will accompany the lectures for better understanding, and design project will help to fix specific knowledge.			
135GEA	Geology	Z,ZK	2
Introduction to Geology Model of the Earth. Plate tectonics. Geological processes. Metamorphic, sedimentary processes. Lithology. Weathering. Pedology. Karst geology. Hydrogeology. Slope deformations. Risk evaluation.			
135MZA	Soil mechanics and foundation engineering	Z,ZK	4
135YKA	Stones in architecture	Z	2
136DSA	Road and Rail Construction	Z	2
154SGEA	Land Surveying	Z,ZK	5
Basic information on the Earth, angle and distance measurement, basics of geodetic calculation (traverse, intersection), determination of heights, basics of setting-out, maps for designing, basics of photogrammetry, basics of error theory and adjustment calculus, determination of areas and volumes, modern geodetic instruments and methods (electronic theodolites, GPS, laser scanners), basic geodetic rules.			
TV1	Physical Education	Z	0
TV2	Physical Education	Z	0

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

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