

Study plan

Name of study plan: Architektura a stavitelství

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Architecture and Building Engineering

Garantor of the study branch: doc. Ing. arch. Václav Dvořák, CSc.

Program of study: Architecture and Building Engineering

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 nástupu 2015 do nástupu 2018 v etn

Name of the block: Compulsory courses

Minimal number of credits of the block: 188

The role of the block: Z

Code of the group: BA20150100

Name of the group: obor 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 Petr Kučera, Aleš Nekvind, Jan Lama, Michal Beneš, Václav Kelar, Monika Rencová, Martin Soukenka, František Bubeník, Yuliya Namlyeyeva, 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, Veronika Kamaříková Petr Hájek Petr Hájek (Gar.)	Z,ZK	5	2P+2C	Z	Z
129AAKO	Architectural composition studio Kamila Housová Mizerová, Richard Bartík, Libor Fránek, Michal Blažek, Jan Sapák, Lenka Popelová, Vojtěch Dvořák, Jan Kašpar, Blažena Menlová, Jana Hořická Jaroslav Daňha (Gar.)	KZ	4	3C	Z	Z
129GPA	Graphic Presentation of Architecture Kamila Housová Mizerová, Vojtěch Dvořák, Jan Kašpar, Radek Macke, Ivo Chvojka, Jiří Kárník, Eva Antoňová, Vojtěch Taraba, Ctibor Havelka, Zuzana Pešková Zuzana Pešková (Gar.)	KZ	5	5C	Z	Z
129UNA	Introduction to professional practise Václav Dvořák, Jaroslav Daňha, 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=obor 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
129UNA	Introduction to professional practise	ZK	5

Code of the group: BA20150200

Name of the group: obor 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, Petra Vacková, Jozef Bobok, Hana Lakomá Iva Malechová Iva Malechová (Gar.)	Z,ZK	5	2P+2C	L,Z	z
101M2A	Mathematics 2A Petr Kuera, Jan Lama, Václav Kelar, Monika Rencová, Martin Soukenka, Miloslav Vlasák, Zdeněk Skalák, Iva Kivková, Iva Slámová, Petr Kuera Petr Kuera (Gar.)	Z,ZK	4	2P+2C	L,Z	z
124PSA2	Buildings 2 Lenka Ingrišová, Aneta Libečajtová, Zuzana Rácová, Tereza Pavl, Veronika Kamařková, Jiří Pazderka, Eva Burgetová Tereza Pavl Jiří Pazderka (Gar.)	Z,ZK	5	2P+2C	L	z
129AKR	Architectural drawing Kamila Housová Mizerová, Jan Bažant, Jan Kašpar, Radek Macke, Ivo Chvojka, Eva Antořová, Ctibor Havelka, Jaroslav Sýkora, Vratislav Ševčík, Zuzana Pešková Zuzana Pešková (Gar.)	KZ	4	3C	L	z
129ATZ1	Introductory design studio 1 Libor Fránek, Hana Bořková, Michal Blažek, Jan Kašpar, Blažena Menlová, Václav Dvořák, Pavel Filsák, Jiří Trojan, Jaroslav Dvořák, Jana Hořická Jana Hořická (Gar.)	KZ	4	4C	L	z
132SMA1	Structural Mechanics 1A Aleš Jíra, Jan Zeman, Jan Voříšek, Anna Kurová, Jaroslav Schmidt, Ondřej Faltus Aleš Jíra Jan Zeman (Gar.)	Z,ZK	5	2P+2C	L,Z	z

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

101KGA1	Constructive Geometry A	Z,ZK	5
101M2A	Mathematics 2A	Z,ZK	4
124PSA2	Buildings 2 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.	Z,ZK	5
129AKR	Architectural drawing Practicing drawing according seen bodies and objects. Model still life, character motion study, study drawings of trees in the exteriors in the historic city center. Pencil and crayon technology. Developing students' creative thinking.	KZ	4
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
132SMA1	Structural Mechanics 1A	Z,ZK	5

Code of the group: BA20150300

Name of the group: obor 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 Aleš Nekvinda, Michal Beneš, Václav Kelar, Monika Rencová, Martin Soukenka, František Bubeník, Zdeněk Skalák, Iva Malechová, Jozef Bobok, 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 Karel Kabele, Stanislav Frolík, Hana Kabrhelová Hana Kabrhelová Karel Kabele (Gar.)	Z,ZK	4	2P+2C	Z	z
129ATZ2	Introductory design studio 2 Richard Bartík, Libor Fránek, Michal Blažek, Jana Hořická, Vojtěch Dvořák, Jan Kašpar, Petra Novotná, Jiří Trojan, Vojtěch Taraba, Jana Hořická Jana Hořická (Gar.)	KZ	6	4C	Z	z
129NB01	Architectural typology 1 Jana Hořická, Petra Novotná, Petr Lédl, Luboš Knytl Luboš Knytl Luboš Knytl (Gar.)	Z,ZK	3	2P+1C	Z	z

132PRA	Strength of Materials A <i>Aleš Jíra, Vít Šmilauer, Eva Novotná, Karel Pohl, Luboš ehounek, Tomáš Koudelka Vít Šmilauer Vít Šmilauer (Gar.)</i>	Z,ZK	4	1P+2C	Z,L	z
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Characteristics of the courses of this group of Study Plan: Code=BA20150300 Name=obor 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: obor 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 Ž ára Vladimír Ž ára Vladimír Ž ára (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, Jan Kašpar, Ladislav Tichý, Petra Novotná, Pavel Filsak, Tomáš Eckschlager, Eva Linhartová, Vojtěch Taraba, Petr Lédl, Jana Hořická Petr Šikola (Gar.)</i>	KZ	6	6C	Z	z
129NB02	Architectural typology 2 <i>Blaž Menlová, Petr Lédl, Luboš Knytl, Jindřich Svatoš, Ladislav Kalivoda, Miloš Kopřiva, Eva Kosíková, Pavla Grünerová Jana Hořická Luboš Knytl (Gar.)</i>	Z,ZK	5	3P+1C	L	z
132SMA2	Structural Mechanics 2A <i>Aleš Jíra, Vít Šmilauer, Luboš ehounek, Stanislav Šulc, Tomáš Janda Vít Šmilauer Vít Šmilauer (Gar.)</i>	Z,ZK	4	1P+2C	Z,L	z
154SGEA	Land Surveying <i>Tomáš Kamen Tomáš Kamen Martin Štroner (Gar.)</i>	Z,ZK	5	2P+2C	L	z

Characteristics of the courses of this group of Study Plan: Code=BA20150400 Name=obor 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 installations 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 theodolites, GPS, laser scanners), basic geodetic rules.	Z,ZK	5

Code of the group: BA20160500

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

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:

bez 129AT02

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, Martin Jiránek, Marek Pokorný, Daniela Pitelková, 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 Jana Hoická, Petra Novotná, Luboš Knytl, 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=BA20160500 Name=obor 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: BA20160600

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

Requirement credits in the group: In this group you have to gain at least 21 credits

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

Credits in the group: 21

Note on the group: bez 129AT03

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, Karin 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
134ODA1	Steel and Timber Structures in Architecture 1 Michal Jandera Michal Jandera Michal Jandera (Gar.)	Z,ZK	5	2P+2C	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

Characteristics of the courses of this group of Study Plan: Code=BA20160600 Name=obor 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
134ODA1	Steel and Timber Structures in Architecture 1	Z,ZK	5

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.

135MZA	Soil mechanics and foundation engineering	Z,ZK	4
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Code of the group: BA20150700

Name of the group: obor 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>Tomáš Váchal, Václav Pospíchal, Rostislav Šulc Tomáš Váchal Václav Pospíchal (Gar.)</i>	Z,ZK	4	2P+1C	Z,L	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>Pavel Filsak, Eva Linhartová, Ladislav Kalivoda, Josef Smola, Aleš Brotánek, Bedřich Košťalka, Tomáš Kubal, Petr Housa Zuzana Pešková Jaroslav Da a (Gar.)</i>	KZ	9	6C	Z,L	z
129DA03	History of Architecture 3 <i>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 Horníček, Michal Uhlík, Michal Weber, Jiří Drbohlav, Jaromíra Ježková Michal Uhlík Ludvík Věbr (Gar.)</i>	Z	2	1P+1C	Z	z
100ODPR	Industrial Training (3 weeks) <i>Petr Hájek, Jan Ržika Eduard Hromada Michal Jandera (Gar.)</i>	Z	0	6C	Z,L	z

Characteristics of the courses of this group of Study Plan: Code=BA20150700 Name=obor 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: BA20150800_2

Name of the group: obor Architektura a stavitelství, povinn volitelné předměty, 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:

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

Characteristics of the courses of this group of Study Plan: Code=BA20150800_2 Name=obor Architektura a stavitelství, povinn volitelné p edm ty, 8. semestr

105YSAS	Sociology and Psychology 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.	Z	2
123YSHA	Bulding Materials in Architecture 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.	Z	2
124YDRS	Timber Buildings	Z	2
124YKSD	Complex Structural Detail	Z	2
125YNST	HVAC and services design 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.	Z	2
125YPMT	Building services systems CAD, modelling and simulation Introductory course in computer aided modelling and design of building services systems.	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
127YSUP	Landscape Planning (seminar)	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
129YDA4	History of Architecture 4	Z	2
129YOPA	Heritage preservation	Z	2
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 obor 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 obor Architektura a stavitelství

129XA3K	Architectural Drawing 1	KZ	1
129XA4K	Plein Air Drawing (1 week)	Z	1

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 3

The role of the block: S

Code of the group: BA20150100_1

Name of the group: obor 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 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) Martin Valoušek, Jana Hrbková Lucie Czivišová Martin Valoušek (Gar.)	Z	2	2P	Z	s
105YRET	Rhetoric Monika Dobiášová Monika Dobiášová (Gar.)	Z	2	2C	Z,L	s
124YZSK	Plotting of Building Structures Michal Ženišek Michal Ženišek Jan R ži ka (Gar.)	Z	2	2C	Z	s

Characteristics of the courses of this group of Study Plan: Code=BA20150100_1 Name=obor 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
The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectiveness of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the speaker can build up a favorable personal image in the audience. These skills can be employed even outside the professional field. The course instructs also on preparation of written material and visual aids. The ?Rhetoric? course covers the foundations of the field and serves as an overview course.			
124YZSK	Plotting of Building Structures	Z	2

Code of the group: BA20150200_1

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

Requirement credits in the group: In this group you have to gain 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
129YAR1	ArchiCad 1 ? Elementary	Z	1	2C	L	s
129YAR2	ArchiCad 2 ? Advanced	Z	1	2C	L	s
129YCIN	Cinema	Z	1	2C	L	s
129YREV	Revit	Z	1	2C	L	s
129Y3D	3D max	Z	1	2C	L	s

Characteristics of the courses of this group of Study Plan: Code=BA20150200_1 Name=obor Architektura a stavitelství, po íta ová grafika, 2. semestr

129YAR1	ArchiCad 1 ? Elementary	Z	1
The students are acquainted with the possibilities of BIM using ArchiCAD software. Basic tools, functions and principles are demonstrated. Students practice the newly acquired knowledge on a simplified BIM model of a family house or another appropriate building or structure. Objective of this course is to teach prospective architects and civil engineers an effective method of creation BIM model that is base for 2D and 3D documentation (including VR model, IFC etc.).			
129YAR2	ArchiCad 2 ? Advanced	Z	1
The subject enhances and develops skills acquired in the basic course 129ACM1. The course is focused on methods and tools for creating of complicated shapes and library elements.			
129YCIN	Cinema	Z	1
The goal of this course is to present methods and concepts of computer 3D models creation using general 3D modeller Cinema4D.			
129YREV	Revit	Z	1
129Y3D	3D max	Z	1

Name of the block: Jazyky

Minimal number of credits of the block: 4

The role of the block: J

Code of the group: BA20150200_J

Name of the group: povinn volitelný jazyk - 2. 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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
104YC1A	English 1 <i>Petra Martincová</i>	Z	2	2C	Z,L	J
104YC1F	French 1 <i>Svatava Boboková-Bartíková</i>	Z	2	2C	Z,L	J
104YC1N	German 1 <i>Olga Sedláková</i>	Z	2	2C		J
104YC1R	Russian 1 <i>Svatava Boboková-Bartíková</i>	Z	2	2C		J
104YC1S	Spanish 1 <i>Miloslava Menclová</i>	Z	2	2C		J

Characteristics of the courses of this group of Study Plan: Code=BA20150200_J Name=povinn volitelný jazyk - 2. semestr

104YC1A	English 1	Z	2
104YC1F	French 1	Z	2
104YC1N	German 1	Z	2
104YC1R	Russian 1	Z	2
104YC1S	Spanish 1	Z	2

Code of the group: BF20150300_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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
104YC2A	English 2 <i>Svatava Boboková-Bartíková, Věra Čermáková, Petra Florianová, Sandra Giormani, Hana Horká, Šárka Chroustová, Petra Martincová, Renáta Nivenová, Michaela Németh, Svatava Boboková-Bartíková Svatava Boboková-Bartíková (Gar.)</i>	Z,ZK	2	2C		J
104YC2F	French 2 <i>Svatava Boboková-Bartíková</i>	Z,ZK	2	2C		J
104YC2N	German 2 <i>Svatava Boboková-Bartíková, Helena Chromá Olga Sedláková Svatava Boboková-Bartíková (Gar.)</i>	Z,ZK	2	2C		J
104YC2R	Russian 2 <i>Svatava Boboková-Bartíková</i>	Z,ZK	2	2C		J
104YC2S	Spanish 2 <i>Miloslava Menclová</i>	Z,ZK	2	2C		J

Characteristics of the courses of this group of Study Plan: Code=BF20150300_J Name=povinn volitelný jazyk - 3. semestr

104YC2A	English 2	Z,ZK	2
104YC2F	French 2	Z,ZK	2
104YC2N	German 2	Z,ZK	2
104YC2R	Russian 2	Z,ZK	2
104YC2S	Spanish 2	Z,ZK	2

Name of the block: Alternativní podmínky

Minimal number of credits of the block: 15

The role of the block: OO

Code of the group: BA20160500_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 Jana Hoická, Petra Novotná, Aleš Vaněk, Luboš Knytl, Petr Šíkola, Helena Hexnerová, Bedřich Košťálek, Zdeněk Jiran, Miloš Kopřiva, Jana Hoická Petr Šíkola (Gar.)	KZ	6	6C	Z	OO
129IDS1	International Design Studio 1 Eva Linhartová, Michal Hlaváček	KZ	6	6C	Z	OO

Characteristics of the courses of this group of Study Plan: Code=BA20160500_1 Name=volba atelieru, 5. semestr

129AT02	Design studio 2	KZ	6
129IDS1	International Design Studio 1	KZ	6

Code of the group: BA20160600_1

Name of the group: volba atelieru, 6. semestr

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

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

Credits in the group: 9

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
129AT03	Design studio 3 Vojtěch Dvořák, Ladislav Tichý, Jiří Trojan, Tomáš Eckschlager, Petr Lédl, Luboš Knytl, Jindřich Svatoš, Štěpánka Hájková, Jiří Smolík, Petr Lédl Petr Lédl (Gar.)	KZ	9	8C	Z	OO
129IDS2	International Design Studio 2 Eva Linhartová, Michal Hlaváček Michal Hlaváček Michal Hlaváček (Gar.)	KZ	9	8C	L	OO

Characteristics of the courses of this group of Study Plan: Code=BA20160600_1 Name=volba atelieru, 6. semestr

129AT03	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	9
129IDS2	International Design Studio 2	KZ	9

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: BA20150800_1

Name of the group: obor 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:

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 <i>Hana Kabrhelová</i>	Z	24	16C	L,Z	S1
129BPAA	Bachelor Thesis <i>Libor Fránek, Jana Hoická, Vojtěch Dvořák, Ladislav Tichý, Václav Dvořák, Petra Novotná, Jaroslav Daňá, Vojtěch Taraba, Zuzana Pešková, Mikuláš Hulec Mikuláš Hulec (Gar.)</i>	Z	24	16C	L,Z	S1

Characteristics of the courses of this group of Study Plan: Code=BA20150800_1 Name=obor Architektura a stavitelství, bakalářská práce

124BPAA	Bachelor Thesis	Z	24
125BPAA	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
104YC1A	English 1	Z	2
104YC1F	French 1	Z	2
104YC1N	German 1	Z	2
104YC1R	Russian 1	Z	2
104YC1S	Spanish 1	Z	2
104YC2A	English 2	Z,ZK	2
104YC2F	French 2	Z,ZK	2
104YC2N	German 2	Z,ZK	2
104YC2R	Russian 2	Z,ZK	2
104YC2S	Spanish 2	Z,ZK	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
The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectiveness of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the speaker can build up a favorable personal image in the audience. These skills can be employed even outside the professional field. The course instructs also on preparation of written material and visual aids. The Rhetoric course covers the foundations of the field and serves as an overview course.			
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.			
122TS1A	Technology of Construction	Z,ZK	4
Earthwork, design of pit excavation and supporting technologies. Design of formwork. Concrete mixer plant, concrete conveying, concreting. Brickwork technologies, Roofing work, tin work.			
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.			
123YSHA	Building 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.			
124BPAA	Bachelor Thesis	Z	24
124PSA1	Buildings 1	Z,ZK	5

124PSA2	Buildings 2 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.	Z,ZK	5
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 This subject includes an introduction to ventilation and air conditioning in buildings and solutions for electric instalations and artificial lighting.	Z,ZK	4
125TBA1	Building Services Systems 1 Basic course in building services systems - water supply, drainage, gas supply and heating systems.	Z,ZK	4
125YNST	HVAC and services design 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.	Z	2
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, it 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
127UB01	Urban Planning 1	Z,ZK	6
127UR2B	Urban Planning 2	Z,ZK	4
127YSUP	Landscape Planning (seminar)	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 Practicing drawing according seen bodies and objects. Model still life, character motion study, study drawings of trees in the exteriors in the historic city center. Pencil and crayon technology. Developing students' creative thinking.	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
129AT03	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	9

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.			
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			
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
129IDS1	International Design Studio 1	KZ	6
129IDS2	International Design Studio 2	KZ	9
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
129Y3D	3D max	Z	1
129YAR1	ArchiCad 1 ? Elementary	Z	1
The students are acquainted with the possibilities of BIM using ArchiCAD software. Basic tools, functions and principles are demonstrated. Students practice the newly acquired knowledge on a simplified BIM model of a family house or another appropriate building or structure. Objective of this course is to teach prospective architects and civil engineers an effective method of creation BIM model that is base for 2D and 3D documentation (including VR model, IFC etc.).			
129YAR2	ArchiCad 2 ? Advanced	Z	1
The subject enhances and develops skills acquired in the basic course 129ACM1. The course is focused on methods and tools for creating of complicated shapes and library elements.			
129YCIN	Cinema	Z	1
The goal of this course is to present methods and concepts of computer 3D models creation using general 3D modeller Cinema4D.			
129YDA4	History of Architecture 4	Z	2
129YOPA	Heritage preservation	Z	2
129YREV	Revit	Z	1
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
134ODA1	Steel and Timber Structures in Architecture 1	Z,ZK	5
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 techeometers, 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>

