Study plan

Name of study plan: 17 86 90 00 BVES EKO 2012 K základ

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page Type of study: unknown combined

Required credits: 178
Elective courses credits: 0
Sum of credits in the plan: 178
Note on the plan: první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 167

The role of the block: P

Code of the group: 12B-KMEN* VES

Name of the group: 01 2012 souhrn 12B**1P-KMEN a 12B**2P-KMEN Requirement credits in the group: In this group you have to gain 50 credits

Requirement courses in the group: In this group you have to complete 11 courses

Credits in the group: 50 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
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р

Characteristics of the courses of this group of Study Plan: Code=12B-KMEN* VES Name=01 2012 souhrn 12B**1P-KMEN a 12B**2P-KMEN

2102019	Chemistry	nz i	ာ
General chemistry from	the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properti	es of matter, therr	nodynamics,
phase equilibrium, chen	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laborato	ry practice is
!			

oriented upon the material properties measurement.

2021041 Physics I.

Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations,

waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures.

2011021	Constructive Geometry	Z,ZK	6
The subject is focused	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		

2011056 Mathematics I
In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. Students will also get to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvectors of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.

2011062 Matematika II.

Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence) and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, Fubini theorem. Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

2322029 Materials Science I.

History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, deformation, recrystallization and fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iron-carbon phase diagram.

2012037Computer GraphicsKZ32372041Computer Support for StudyKZ3The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with the use of computers. Students

The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with the use of computers. Students gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.

2131002 Engineering Design II

Z,ZK 4

Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures.

Code of the group: 12B*K*P-ZT12

Name of the group: 04 2012 kombinované ZT v po adí 12

Requirement credits in the group: In this group you have to gain 6 credits

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

Credits in the group: 6 Note on the group:

	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
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р

Characteristics of the courses of this group of Study Plan: Code=12B*K*P-ZT12 Name=04 2012 kombinované ZT v po adí 12

K333038 Fundamentals of Technology I. Z 3

Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technical metals. Production of pig iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging. Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame welding and arc welding with coated electrodes. Thermal cutting.

Code of the group: 12BVK3P

Name of the group: 08 2012 BVES 3.sem kombi povinné

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р
2321039	Materials Science II. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková, Jan Walter, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
K331068	Technology I	Z,ZK	5	16B	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVK3P Name=08 2012 BVES 3.sem kombi povinné

2021025 Physics II. Z,ZK 4
Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction

Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements. Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures.

2011009 Mathematics III Z,ZK 5
An introductory course in ordinary differential equation and infinite series.

2321039 Materials Science II.

Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing, technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.

K331068 Technology I Z,ZK

Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products, heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment

Code of the group: 12BVK4P

Name of the group: 09 2012 BVES 4.sem kombi povinné

Requirement credits in the group: In this group you have to gain 22 credits

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

Credits in the group: 22 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
2342005	Quality Control	KZ	2	1P+1C+1L	*	Р
K341014	Technology II.	Z,ZK	5	8KP+8KC	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVK4P Name=09 2012 BVES 4.sem kombi povinné

2342005	Quality Control	KZ	2
Basic quality control te	ms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta	tistical process co	ontrol, statistical
sampling. Tools and me	ethods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control system	ns.	
K341014	Technology II.	Z,ZK	5

Code of the group: 12BV*5P

Name of the group: 12 2012 BVES 5.sem povinné

Requirement credits in the group: In this group you have to gain 11 credits

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

Credits in the group: 11 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2141204	Introduction to Electrical Engineering for Technology Jan Chyský, Lubomír Musálek, Martin Novák Lubomír Musálek Jan Chyský (Gar.)	Z,ZK	4	2P+0C+2L	*	Р
2383001	Fundamentals of Law Václav Pilík Václav Pilík (Gar.)	Z	2	1P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BV*5P Name=12 2012 BVES 5.sem povinné

2141204	Introduction to Electrical Engineering for Technology	∠,∠K	4	ŀ
Elements of electrical ci	rcuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors	s, thyristors,opera	ition ampli	fiers.
Analogue and digital cir	cuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines.	Synchronous ma	achines.	
DC machines				

2383001 Fundamentals of Law

Basic orientation in legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provide a view into the Czech Legal Order, particular sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is necessary for students to know our legal institutions, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. At the same time the course leads students to know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relationships and to make them ready to prepare professional presentations and to understand basic structures between law and engineering

Code of the group: 12BV*5P-EKO

Name of the group: 14 2012 BVES 5.sem zam EKO povinné

Requirement credits in the group: In this group you have to gain 18 credits

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

Credits in the group: 18 Note on the group:

Code of the group: 12BV*6P

Name of the group: 15 2012 BVES 6.sem povinné

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

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

Credits in the group: 9 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2331071	Automation of Production Processes	Z,ZK	5	3P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BV*6P Name=15 2012 BVES 6.sem povinné

2331071 Automation of Production Processes Z,ZK 5

Automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation in iron and steel foundries. Automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.

Code of the group: 12BV*6P-EKO

Name of the group: 16 2012 BVES 6.sem zam EKO povinné

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

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

Credits in the group: 21 Note on the group:

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 11

The role of the block: PV

Code of the group: 12B**1Q-HUM

Name of the group: 03 2012 bakalá ské povinn volitelné humanitární

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 6)

Requirement courses in the group: In this group you have to complete at least 1 course (at most 3)

Credits in the group: 2

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

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
2383009	Communication and Dealing with People Jan Horejc, Vladimír Brdek Jan Horejc Jan Horejc (Gar.)	Z	2	1P+1C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12B**1Q-HUM Name=03 2012 bakalá ské povinn volitelné humanitární

2383009 Communication and Dealing with People Z 2

Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.

Code of the group: 12BV*4Q-BZJ VES

Name of the group: 11 2012 bakalá ské zkoušky z jazyk pro VES

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 10)

Requirement courses in the group: In this group you have to complete at least 1 course (at most 5)

Credits in the group: 2

Note on the group:

Tiote 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
2041061	English-Bachelor Exam Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice (Gar.)	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV

2041065	Russian - Bachelor Exam / FME Michaela Schusová, Hana Volejníková, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z,ZK	2	0P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BV*4Q-BZJ VES Name=11 2012 bakalá ské zkoušky z jazyk pro VES

VES			
2041061	English-Bachelor Exam	Z,ZK	2
Mapped to the Comm	ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take part	in discussions
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041063	French - Bachelor Exam /FME	Z,ZK	2
Mapped to the Comm	ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take part	in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041062	German - Bachelor Exam / FME	Z,ZK	2
Mapped to the Comm	ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take part	in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Comm	ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take part	in discussions
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
Mapped to the Comm	on European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take part	in discussions
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		

Code of the group: 12BV*4Q-ZAM

Name of the group: 10 2012 BVES 4.sem zam 1povvol

Requirement credits in the group: In this group you have to gain at least 5 credits (at most 10)

Requirement courses in the group: In this group you have to complete at least 1 course (at most 2)

Credits in the group: 5 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	
2321067	Technical Application of Materials Stanislav Krum	Z,ZK	5	3P+1C	*	PV	

Characteristics of the courses of this group of Study Plan: Code=12BV*4Q-ZAM Name=10 2012 BVES 4.sem zam 1povvol

2321067	Technical Application of Materials	Z,ZK	5	l
P edm t popisuje apliko	vatelnost jednotlivých skupin inženýrských materiál 🛮 a jejich odpovídající vlastnosti. Rovn 🛽 se v 🗀 nuje aktuálním vývojovým tr	rend m t chto sk	upin. The subject	l
describes applicability o	f specific engineering material types and their characteristics. It deals with the current development trends in these materials	as well.		l

Code of the group: 12BV*5Q-OP

Name of the group: 13 2012 BVES 5.sem 1povvol oborové projekty

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 8)

Requirement courses in the group: In this group you have to complete at least 1 course (at most 4)

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
2322091	Project Jana Sobotová, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Ta ana Vacková, Jakub Horník, Ladislav Cvr ek, Elena ižmárová, Jana Sobotová Jana Sobotová (Gar.)	KZ	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV
2342091	Project	KZ	2	0P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BV*5Q-OP Name=13 2012 BVES 5.sem 1povvol oborové projekty

2322091	Project	KZ	2					
On the basis of the pre	On the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature							
with particular emphas	is on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment	or evaluate hithert	to obtained					
knowledge or results.								
2332091	Project	KZ	2					
2342091	Project	KZ	2					
Work on specialized ta	sks.	•						

Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: 12BV**V-ALFA

Name of the group: 02 2012 ALFA volitelné pro VES

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
202A041	Physics I.	ZK	3	0P+0L	*	V
201A021	Constructive Geometry A Ivana Linkeová	ZK	3	0P+0C	*	V
201A056	Mathematics I.A Radka Keslerová	ZK	4	0P+0C	*	V
201A062	Mathematics II.A Radka Keslerová	ZK	4	0P+0C	*	V

Characteristics of the courses of this group of Study Plan: Code=12BV**V-ALFA Name=02 2012 ALFA volitelné pro VES

202A041 | Physics I.

Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures.

201A021	Constructive Geometry A	ZK	3
The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.			
201A056	Mathematics I.A	ZK	4
Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable			
201A062	Mathematics II.A	ZK	4

Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence) and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, Fubini theorem. Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

Code of the group: 12B**1V-DOP SEMI

Name of the group: 05 2012 doporu ené seminá e

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0

Note on the group: Pokud si chce student své dosud získané znalosti (například z matematiky, fyziky, cizích jazyků

atd.) doplnit, může si zapsat některý z volitelných předmětů, které příslušné ústavy pro 1. semestr

(zimní) vypisují. Doporučujeme zejména předměty uvedené v této skupině

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
2026016	Physics - Seminar	Z	2	0P+2C	1	V
2016007	Mathematics I Seminar Radka Keslerová, Hynek ezní ek, Olga Majlingová Radka Keslerová Gejza Dohnal (Gar.)	Z	2	0P+2C	1	V

Characteristics of the courses of this group of Study Plan: Code=12B**1V-DOP SEMI Name=05 2012 doporu ené seminá e

2026016	Physics - Seminar	Z	2
The subject is mainly m	eant for high-school students for repetition of high-school physics.		
2016007	Mathematics I Seminar	Z	2

Code of the group: 12B**1V-DOP ZJK

Name of the group: 06 2012 doporu ené základní jazykové kurzy a prezentace

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
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michaela Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	Z	V
2046127	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I. Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	٧
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046085	French - Beginners' Course Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V

2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046161	Presentations in English Michaela Schusová	Z	2	0P+2C	*	V
2046166	Presentations in Czech Jaroslava Kommová	Z	2	0P+2C	*	V
2046162	Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Dušana Jirovská	Z	2	0P+2C	*	V
2046163	Presentations in French language Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vitková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Voleiníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V

Characteristics of the courses of this group of Study Plan: Code=12B**1V-DOP ZJK Name=06 2012 doporu ené základní jazykové kurzy a prezentace

	-		
2046155	English Conversation	Z	2
Improving communicative	ve skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communicative	ve skills in speaking on general topics and general technical topics.		

2046071	English - Lower Intermediate	Z	2
	n European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which		
	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem		
2046070	English - Lower Intermediate	Z	2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language. A1 - A2.	m. writing in a sir	npie way about
2046074	English - Advanced	Z	2
	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	_	
1	ummary, a report, an essay reading and comprehension of popular-scientific and scientific articles or texts from student's fie		
Grammar structures on	advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
	n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	-	
1 ' '	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprel	hension of popula	r-scientific and
	s from student's field of studies without difficulties. Grammar structures on advanced level.	7	2
2046072	English - Upper Intermediate guage skills taking into consideration professional English and common professional terminology. Comprehension of standarc	_	2
	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	i English speech a	and conversation
2046073	English - Upper Intermediate	Z	2
	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En		
terminology. Comprehe	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broa	dening grammar
knowledge.			
2046068	English - Beginners	Z	2
	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p		
2046069	English - Beginners	Z	. 2
1	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan ninology (professional language).	ding and use of b	asic expressions
2046126	Czech Lower Intermediate	Z	2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	_	
_	and comprehension of simple texts. Improvement of professional language.	3	, , , , , , , , , , , ,
2046125	Czech Lower Intermediate	Z	2
Aim: Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sir	nple way about
	and comprehension of simple texts. Improvement of professional language.		
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen	_	
	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen s from student's field of studies without difficulties. Grammar structures on advanced level.	sion of popular-sc	denuiic and
2046117	Czech -Advanced	Z	2
	en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in		
Written skills. Ability to	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical at	rticles.	
2046127	Czech - Upper Intermediate	Z	2
Understanding standard	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe exp	eriences and
	ne's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter		-
knowledge technical la		mediate level. Bre	aderling the
2046119	Czech Language for Beginners I.	Z	2
	ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	sional language)	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Commo	European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	ding and use of b	asic expressions
of general scientific terr	ninology (professional language).		
2046086	French - Lower Intermediate Course	Z	2
1	hat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr nprehension of simple texts. Improvement of professional language.	iting in a simple w	ay about familiar
2046087			•
		7	
	French - Lower Intermediate Course	Z a student meets	2 at school or in
Mapped to the level of	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which	a student meets	at school or in
Mapped to the level of	French - Lower Intermediate Course	a student meets	at school or in
Mapped to the level of his/her free time and sp 2046091	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	a student meets of professional lar Z	at school or in guage.
Mapped to the level of of his/her free time and sp 2046091 Mapped to the level of of Communication with na	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an	a student meets of professional lar	at school or in aguage. 2 e student.
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of Communication with na currant issues and poper.	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ular scientific and technical articles.	a student meets of professional lar Z pics familiar to the	at school or in inguage. 2 student. texts concerning
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of the communication with naturant issues and poper 2046090	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ular scientific and technical articles. French - Advanced	a student meets of professional lar Z pics familiar to the nd understanding	at school or in guage. 2 student. texts concerning
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of the Communication with naturant issues and poper 2046090 Comprehension of spot	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ular scientific and technical articles. French - Advanced Tench - Advanced Tench - Advanced Tench - Reading and technical articles in French on topics familiar to the student. Communication with native speakers, participation	a student meets of professional lar Z pics familiar to the nd understanding Z n in discussions.	at school or in guage. 2 student. texts concerning
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of the Communication with naturant issues and poper 2046090 Comprehension of spot opinions. Written skills.	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an allar scientific and technical articles. French - Advanced Len language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and texts.	a student meets of professional lar Z pics familiar to the d understanding Z n in discussions.	at school or in guage. 2 student. texts concerning 2 Expressing
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of Communication with na currant issues and population of spot comprehension of spot opinions. Written skills. 2046089	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an allar scientific and technical articles. French - Advanced Len language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. French - Upper Intermediate	a student meets of professional lar Z pics familiar to the dunderstanding Z n in discussions. In the dunderstanding Z n in discussions. In Z	at school or in aguage. 2 e student. texts concerning 2 = Expressing
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of Communication with na currant issues and population of spot opinions. Written skills. 2046089 Mapped to the level of th	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an allar scientific and technical articles. French - Advanced Len language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and texts.	a student meets of professional lar Z pics familiar to the dunderstanding Z in in discussions. In the dunderstanding Z in the dunderstanding Z in the dunderstanding Z in the discussions. In the dunderstanding Z in the dund	at school or in inguage. 2 e student. texts concerning 2 = xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of Communication with na currant issues and population of spot opinions. Written skills. 2046089 Mapped to the level of th	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an allar scientific and technical articles. French - Advanced Len language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical encountry. French - Upper Intermediate Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students of the student is speakers.	a student meets of professional lar Z pics familiar to the dunderstanding Z in in discussions. In the dunderstanding Z in the dunderstanding Z in the dunderstanding Z in the discussions. In the dunderstanding Z in the dund	at school or in inguage. 2 e student. texts concerning 2 = xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Mapped to the level of this/her free time and sp. 2046091 Mapped to the level of the Communication with na currant issues and population of spot opinions. Written skills. 2046089 Mapped to the level of the during free time, and tailing 12046088	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ular scientific and technical articles. French - Advanced Len language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and texts. French - Upper Intermediate Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students of king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding standard speech about familiar topics.	a student meets of professional lar Z pics familiar to the nd understanding Z n in discussions. In the chical articles. Z comes across at wanding general and Z	at school or in aguage. 2 e student. texts concerning 2 Expressing 2 ork, at school, d technical texts.

2046084	French - Beginners	Z	2
0 ,	v what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Workerson to the state of simple texts. Improvement of professional language.	riting in a simple w	ay about familia
2046085	French - Beginners' Course	Z	2
	f Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations whic		
his/her free time and	speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lar	iguage.
2146060	Indonesian Language Course for Exchange	Z	2
	anguage for Student Exchange Program to Indonesia	7	2
2146061 Second part of Indone	Technical Indonesian - Course I. esian Language for Student Exchange Program to Indonesia	Z	2
2144062	Technical Indonesian - Course II.	Z,ZK	3
	anguage for Student Exchange Program to Indonesia	_,,	
2046078	German - Lower Intermediate Course	Z	2
	learly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about thing and comprehension of simple texts. Improvement of professional language.	em. Writing in a sir	nple way about
2046079	German - Lower Intermediate Course	Z	2
	f Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations wh	_	
or in his/her free time	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	ent of professional	language.
2046083	German - Advanced Course	Z	2
	f Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comp		
	exts from student's field of studies without difficulties. Grammar structures on advanced level.	renension of popul	ar-solerillile aria
2046082	German - Advanced Course	Z	2
Comprehension of sp	oken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participa	tion in discussions	. Expressing
-	s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and		
2046081	German - Upper Intermediate Course	Z	2
* *	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students talking about these topics. Ability to describe experiences and events, explain one s opinions and plans. Reading and unders		
2046080	German - Upper Intermediate Course	7	2
	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab	-	_
_	one's opinions and plans. Reading and understanding general and technical texts.		
2046076	German - Beginners	Z	2
	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe		
2046077	German - Beginners	Z	2
	Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding ninology (professional language).	g and use of basic	expressions or
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.	_	_
2046166	Presentations in Czech	Z	2
	give presentations in English on technical topics, with a possible co-operation with specialized departments.		
2046162	Presentations in German	Z	2
2046164	nting technical topics in German, possibly in cooperation with specialized departments.	Z	2
	Presentations in Russian nting technical topics in Russian, possibly in cooperation with specialized departments.	2	
2046163	Presentations in French language	Z	2
Preparation for prese	nting technical topics in French, possibly in cooperation with specialized departments.	1	
2046165	Presentations in Spanish	Z	2
	nting technical topics in Spanish, possibly in cooperation with specialized departments.		
2046137	Russian - Lower Intermediate Course	Z	2
	v what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Workerson to simple texts. Improvement of professional language.	riting in a simple w	ay about familia
2046138	Russian - Lower Intermediate Course	Z	2
	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a s	_	
free time and speaking	g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of prof	essional language.	
2046141	Russian - Advanced	Z	2
	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa		. Expressing
2046142	s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced	Z	2
	Nussian - Advanced f Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on	1	
Communication with I	native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a	•	
	pular scientific and technical articles.	_	
2046140	Russian - Upper Intermediate	Z	2
	f Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and underst		
2046139	Russian - Upper Intermediate	Z	2
	Russian - Opper intermediate ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab	_	
	one's opinions and plans. Reading and understanding general and technical texts.	,	
2046136	Russian - Beginners	Z	2
	f Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand	ding and use of bas	sic expressions
of general scientific to	erminology (professional language)		

2046135	Russian - Beginners	Z	2			
Basic vocabulary of eve	Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)					
2046099	Spanish - Lower Intermediate	Z	2			
Mapped to the level of 0	common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stu	dent meets at sch	ool or in his/her			
free time and speaking	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profes	ssional language.				
2046098	Spanish - Lower Intermediate	Z	2			
Understanding clearly w	hat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	iting in a simple w	ay about familiar			
topics. Reading and cor	nprehension of simple texts. Improvement of professional language.					
2046096	Spanish - Beginners	Z	2			
Aim:Understanding clea	Aim:Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about					
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.						
2046097	Spanish - Beginners	Z	2			
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in						
	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of					

List of courses of this pass:

An introductory course in ordinary differential equation and infinite series. 2.7. X	Code	Name of the course	Completion	Credits
2011021 The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 2011056 Mathematics I The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 2, ZK & 8 In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. Stur will also got to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenve of a matrix. Taylor polynomial, integral as a limit function, integration of some special functions. 2011062 Characteristic integral control of the control of knowledge in some thematic areas: eigennumbers and eigenve of a matrix. Taylor polynomial, integral of a scalar integration of some special functions. 2, ZK & 8 Characteristic integral control of knowledge in some thematic areas: eigennumbers and eigenventure of the development of the control of knowledge in some thematics. A simple smooth surface as a limit function, integration of some special functions. 2, ZK & 8 Characteristic integral control in the control of knowledge in some thematics. The control of knowledge in some thematics in the control of knowledge in some discontrol of the control of knowledge in some discontrol of the control of knowledge in some discontrol of the control of knowledge in some thematics in the control of knowledge in some discontrol of knowledge in some discontrol of knowledge in some discontrol of knowledge in some thematics in the control of knowledge in some discontrol of knowledge in so	2011009		Z,ZK	5
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2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discuss	Mapped to the Con		ties, to take part in	discussions
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discuss	2041062		Z,ZK	2
		l e e e e e e e e e e e e e e e e e e e		1
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.			,	

2041063 Mapped to the Com	French - Bachelor Exam /FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul	Z,ZK ties, to take part in c	2 discussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041064 Mapped to the Com	Spanish - Bachelor Exam / FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	Z,ZK ties, to take part in c	2 discussions,
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ties, to take part in o	
2046068	English - Beginners	Z	2
2046069	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (page 18	7	2
	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	
0040070	of general scientific terminology (professional language).		
2046070 Aim: Understandin	English - Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	2 wav about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046071	English - Lower Intermediate	Z	2
	nmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improveme		
2046072	English - Upper Intermediate	Z	2
The aim is to extend	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard En	-	onversation
2046072	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2	- B1. 	
2046073 Mapped to the Co	English - Upper Intermediate mmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli		2 ofessional
	ehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediknowledge.	-	
2046074	English - Advanced	Z	2
	ension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writte te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field Grammar structures on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English as dispussion. Written and are level as the proof level. Ability to write a support of report on every reading and comprehension.		
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	ision of popular-sc	lentino and
2046076	German - Beginners	Z	2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	
2046077 Mapped to the leve	German - Beginners el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an general scientific terminology (professional language).	d use of basic expr	2 ressions of
2046078	German - Lower Intermediate Course	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	Writing in a simple	way about
2046079	German - Lower Intermediate Course	Z	2
	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a time and speaking about them. Writing in a simple way about familiar topics, reading and comprehesion of simple texts. Improvemen		
2046080	German - Upper Intermediate Course	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
2046094	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z	2
2046081 Mapped to the lev	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students con		
during free time, an	d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi	ng general and tecl	hnical texts.
2046082	German - Advanced Course	Z	2
	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participatio Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046083	German - Advanced Course	Z	2
	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Go	-	
and active participa	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	nsion of popular-so	entific and
2046084	French - Beginners	Z	2
Understanding clea	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	in a simple way ab	oout familiar
2046085	French - Beginners´ Course	Z	2
	el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a le and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046086	French - Lower Intermediate Course	Z	2
	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	. – .	
2046087	French - Lower Intermediate Course	Z	2
	el of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a le and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
1113/1161 1166 1111	ο από οροακτής αρούς εποτή, έντικης πε α οπέριο γιαν αρούς ιαιπικά τορίος. Ασαμπά από συπρετισποίοπ οι διπιρίσ τέχις, πποτονεπιθείτ	ייי או וויייייייייייייייייייייייייייייי	guuye.

2046088	French - Upper Intermediate	Z		2
	• •	_	1	
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experi	ences	and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	_		_
2046089	French - Upper Intermediate	Z	l .	2
Mapped to the leve	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students con	nes across at work	, at sc	hool,
during free time, an	d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi	ng general and tec	hnical	texts.
2046090	French - Advanced	Z		2
Comprehension	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatior	in discussions. Ex	xpress	ing
opinions. V	Vritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical articl	es.	
2046091	French - Advanced	7		2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	. –	l .	
	n native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u			
Communication with	currant issues and popular scientific and technical articles.	inderstanding texts	COLIC	Jiiiiig
20.40000	· ·	7		$\overline{}$
2046096	Spanish - Beginners	Z	l .	2
Aim:Understanding	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	vvriting in a simple	way a	about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.			
2046097	Spanish - Beginners	Z		2
Mapped to the Co	ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at so	chool o	or in
his/her free time	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lar	nguage	э.
2046098	Spanish - Lower Intermediate	Z		2
Understanding clear	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way al	bout fa	amiliar
· ·	topics. Reading and comprehension of simple texts. Improvement of professional language.			
2046099	Spanish - Lower Intermediate	Z		2
	opanish - Lower Intermediate I of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	_	1	
				15/1161
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of			_
2046117	Czech -Advanced	Z	I	2
•	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis		ng opi	nions.
Writte	n skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.		
2046118	Czech -Advanced	Z		2
Mapped to the level	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	ch without great dif	ficultie	s and
active participation	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	sion of popular-scie	entific a	and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.			
2046119	Czech Language for Beginners I.	7		2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	I .	_
		7 - Tolessional langua	· —	2
2046120	Czech Language for Beginners II.			
			l	
Mapped to the Com	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	l	
	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).	_	expres	ssions
Mapped to the Com	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expres	
2046125	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).	Z	expres	ssions 2
2046125	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate	Z	expres	ssions 2
2046125	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z	expres	ssions 2
2046125 Aim: Understanding 2046126	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate	Z Writing in a simple	expres way a	2 about
2046125 Aim: Understanding 2046126	common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z Writing in a simple	expres way a	2 about
2046125 Aim: Understanding 2046126 Aim: Understanding	Imon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	Z Writing in a simple Z Writing in a simple	e way a	2 about 2 about
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127	Imon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate	Z Writing in a simple Z Writing in a simple	exprese way a	2 about 2 about 2
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127	contact the second state of the second states and speech about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate and speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	Z Writing in a simple Z Writing in a simple	exprese way a	2 about 2 about 2
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta	contact the second seco	Z Writing in a simple Z Writing in a simple Z to describe experi	exprese way a	2 about 2 about 2 about 2 and
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta	czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate	Z Writing in a simple Z Writing in a simple Z to describe experi	exprese way a	2 about 2 about 2 and 2
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate amon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	Z Writing in a simple Z Writing in a simple Z to describe experi	exprese way a ences	2 about 2 and 2 sional
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate amon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate	Z Writing in a simple Z Writing in a simple Z to describe experi	exprese way a ences	2 about 2 and 2 sional
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate amon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	Z Writing in a simple Z Writing in a simple Z to describe experi	exprese way a ences	2 about 2 and 2 sional
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate amon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate	Z Writing in a simple Z Writing in a simple Z to describe experi	exprese way a ences professidening	2 about 2 and 2 sional
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Comterminology. Com 2046135	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one so opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate Tzech - Upper Intermediate Topical Transmework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate knowledge technical language.	Z Writing in a simple Z Writing in a simple Z to describe experi Z ech and common pediate level. Broad	exprese way a ences	2 about 2 about 2 and 2 sional the
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com terminology. Com 2046135 Basic voca	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate Topical Transport of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate in the standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate in the standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate in the standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate in the standard Czech speech and conversation about topics of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	Z Writing in a simple Z Writing in a simple Z to describe experi Z ech and common pediate level. Broad	expression ences	2 about 2 about 2 and 2 sional the
2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com terminology. Com 2046135 Basic voca 2046136	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate amon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	Z Writing in a simple Z Writing in a simple Z to describe experi Z eech and common pediate level. Broad	expression and a second	2 about 2 about 2 and 2 sional the 2
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2046125 Aim: Understanding 2046126 Aim: Understanding 2046127 Understanding sta 2046128 Mapped to the Com terminology. Com 2046135 Basic vocal 2046136 Mapped to the leve	Example of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate Czech - Upper Intermediate Intermediat	Z Writing in a simple Z Writing in a simple Z to describe experi Z ech and common pediate level. Broad	expression expression and the second expression express	2 about 2 about 2 and 2 sional the 2 sions
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2046142	Russian - Advanced	Z	2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to	•	
Communication wi	th native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	inderstanding texts	concerning
0040455	currant issues and popular scientific and technical articles.	_	
2046155	English Conversation	Z	2
	Improving communicative skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
	Improving communicative skills in speaking on general topics and general technical topics.		
2046161	Presentations in English	Z	2
	Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.		
2046162	Presentations in German	Z	2
	Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.	1	
2046163	Presentations in French language	Z	2
2010100	Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	_	_
2046164	Presentations in Russian	Z	2
2040104	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	_	_
2046165		Z	2
2040103	Presentations in Spanish Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.		
0040400		7	0
2046166	Presentations in Czech	_ Z	2
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department of the preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department.		
2131002	Engineering Design II	Z,ZK	4
-	SPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	-	
dimensional loc	pps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	ir knowledge from	lectures.
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
Elements of elect	rical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, t	hyristors,operation	amplifiers.
Analogue and	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines	s. Synchronous ma	chines.
	DC-machines		
2144062	Technical Indonesian - Course II.	Z,ZK	3
	Basic of Indonesian Language for Student Exchange Program to Indonesia		'
2146060	Indonesian Language Course for Exchange	Z	2
2110000	Basic of Indonesian Language for Student Exchange Program to Indonesia	_	_
2146061	Technical Indonesian - Course I.	Z	2
2140001	Second part of Indonesian Language for Student Exchange Program to Indonesia		
0400040		1/7	0
2182019	Chemistry	KZ	3
	ry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		
pnase equilibriur	m, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biocher	mistry. Laboratory	practice is
	oriented upon the material properties measurement.		
2321039	Materials Science II.	Z,ZK	4
Fundamentals of n	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the		processing,
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi		
2321067	Technical Application of Materials	Z,ZK	5
	aplikovatelnost jednotlivých skupin inženýrských materiál – a jejich odpovídající vlastnosti. Rovn – ž se v – nuje aktuálním vývojovým treno	· ·	The subject
descri	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.	
2322029	Materials Science I.	KZ	3
History and pres	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrystalliz	zation and
fracture of mate	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	ron-carbon phase o	diagram.
2322091	Project	KZ	2
	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	valuating the studi	ed literature
with particular e	emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	r evaluate hitherto	obtained
·	knowledge or results.		
2331071	Automation of Production Processes	Z,ZK	5
	ration attended of Froduction Fro		
	automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De		
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.	oo.gg aa p. og	ag 0.
2332091	Project	KZ	2
	,		
2342005	Quality Control	KZ	2
	rol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statist		ii, statistical
	mpling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co		
2342091	Project	KZ	2
	Work on specialized tasks.	1	
2372041	Computer Support for Study	KZ	3
	ices students into creating technical and professional documents on computers or Web and into realizing technical computations with t	· · · · · · · · · · · · · · · · · · ·	
gain practic	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical	ical-based WWW p	age.
2383001	Fundamentals of Law	Z	2
Basic orientation i	n legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	le a view into the C	zech Legal
	ources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n		- 1
our legal institution	ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.	At the same time	the course
_	know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation		
1			

2383009	Communication and Dealing with People	Z	2			
Human communic	Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to					
	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.					
K331068	Technology I	Z,ZK	5			
Foundry properties	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form	ing processes. Ser	ni-products,			
	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatmen	t.				
K333038	Fundamentals of Technology I.	Z	3			
Production proces	Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technical metals. Production of pig					
iron and steel. Cas	iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging.					
Free and drop fo	Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame					
welding and arc welding with coated electrodes. Thermal cutting.						
K341014	Technology II.	Z,ZK	5			

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-06-01, time 20:57.