Study plan

Name of study plan: 13 80 85 00 BVES EKO 2012 P 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 full-time

Required credits: 182 Elective courses credits: -1 Sum of credits in the plan: 181 Note on the plan: první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 171

The role of the block: P

Code of the group: 12B*P*P-TV

Name of the group: 07 2012 bakalá ský t locvik

Requirement credits in the group: In this group you have to gain 3 credits

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

Credits in the group: 3

Letní výcvikový kurz je předmět povinný. Student jej může vykonat kdykoliv v průběhu studia, Note on the group:

avšak v souladu s příslušnými ustanoveními Ústavu tělesné výchovy a sportu ČVUT

Code of the group: 12B*P*P-ZT21

Name of the group: 04 2012 prezen ní ZT v po adí 21

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:

	F -					
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
2333038	Fundamentals of Technology I.	Z	3	1P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12B*P*P-ZT21 Name=04 2012 prezen ní ZT v po adí 21

2333038	Fundamentals of Technology I.	Z	3
Production processes in	engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, tea	chnical metals. Pr	oduction of pig
iron and steel. Casting:	modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming to	echnology. Hot an	d cold forging.
Free and drop forging. F	Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of we	lding. Fusion weld	ding: Flame

welding and arc welding with coated electrodes. Thermal cutting.

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, František Lopot, Roman Uhlí 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

K7

2182019 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry, Laboratory practice is oriented upon the material properties measurement. 2021041 Physics I. Z.ZK

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 Z,ZK Constructive Geometry 6 The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 2011056 Z.ZK 8 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. Z.ZK

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.

2012037 Computer Graphics 2372041 Computer Support for Study 3 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.

Engineering Design II

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: 12BVP3P

Chemistry

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

Requirement credits in the group: In this group you have to gain 31 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 31

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
2331068	Technology I.	Z,ZK	5	2P+2C	*	Р

Characteristics of	the courses of this group of Study Plan: Code=12BVP3P Name=08 2012 BVES 3.sem prez	en ní povinn	ıé				
2021025	Physics II.	Z,ZK	4				
Faraday's law of electron	nagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of	electromagnetic w	aves. Interaction				
of radiation with matter.	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. E	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments related	d to the lectures.				
2011009	Mathematics III	Z,ZK	5				
An introductory course i	n ordinary differential equation and infinite series.		'				
2321039	Materials Science II.	Z,ZK	4				
Fundamentals of metall	urgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	nd thermo-mechar	nical processing,				
technical iron-carbon all	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.						
2331068	Technology I.	Z,ZK	5				
Foundry properties of m	etals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of	forming processes	. Semi-products,				
eating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatments.							

Code of the group: 12BVP4P

Name of the group: 09 2012 BVES 4.sem prezen ní 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
2341014	Technology II.	Z,ZK	5	2P+0C+2L	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVP4P Name=09 2012 BVES 4.sem prezen ní povinné

2342005	Quality Control	KZ	2		
Basic quality control ter	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	thods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control system	ns.			
2341014	Technology II.	Z,ZK	5		
mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes,					
	, 01 , 01				

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 Introduction to Electrical Engineering for Technology

2171207	introduction to Electrical Engineering for reclinology	۷,۷۱۸	-
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	tion amplifiers.
Analogue and digital cire	cuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines.	Synchronous ma	chines.
DC-machines			

2383001 Fundamentals of Law

Z

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:

J 1							
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	l

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

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 i e d e n absolvovat

11010 011 1110	9.0ap.		,			
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 Horeic, Vladimír Brdek Jan Horeic Jan Horeic (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	s (with specific me	odifications) to
the activities of manage	rs. So you can't not communicate - you can only communicate hadly 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:

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, Michael 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

2041061	English-Bachelor Exam	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 par	t 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	on European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take par	t 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	on European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take par	t 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	on European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take par	t 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 par	t 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
P edm t popisuje aplik	vatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým t	rend m t chto ski	upin. The subject
describes applicability	of specific engineering material types and their characteristics. It deals with the current development trends in these materials	s as well.	

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
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 emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate hitherto 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 voliteIné 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.

modear or normal or no re	mode or permitted related to the restained.		
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 al	gebra, 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 n	neant 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:

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	٧
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	٧
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, Michele 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	٧
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	٧

2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
	(Gar.) French - Advanced					•
2046091	Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská 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	٧
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	٧
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	٧
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	٧
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 Vítková	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 Volejníková, 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	٧
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	٧
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	٧
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	٧
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	٧

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

preposing communicative skills in speaking on general topics and general technical topics. Pagilish Conversation Pagilish Conversation Pagilish Conversation Pagilish Conversation Pagilish Pagilish	curzy a prezentace		
D46156 English Conversation reproving comminicative silble in speaking on general technical topics. 2 2 2 appect to the Common European Framework of Reference Level R2 Aim: Understanding clearly spoken language about everyday situations which a student meets either at set at all tabelite free lime and speaking about them. Writing in a simple way about familiar topics, reading and comprehension of simple texts. Improvement of professional language, and the student meets at school or in his/her free time and speaking about her. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language, A1 - A2. 4 2 2 2 2 2 2 2 2 2	2046155 English Conversation	Z	2
Ade077 English - Lower Intermediate are at the her fire term early dealing and general topics. Level 2 A larm: Understanding clearly spoken language about everyday situations which a student meets either at sol at the her fire term early dealing about them. Writing in a simple way about familiar force in the fire term early dealing about them. Writing in a simple way about familiar force. Reading and comprehension of simple texts. Improvement of professional language. At - Az. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Improving communicative skills in speaking on general topics and general technical topics.		
D46071 English - Lower Intermediate paped to the Common European Framework of Reference Level A2 Am: Understanding clearly spoken language about everyday situations which a student measures letter at side of at 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. ### Advanced English - Advanced Z 2 2 2 2 2 2 2 2 2	2046156 English Conversation	Z	2
apopet to the Common European Framework of Reference Level A2 Aim. Understanding clearly spoken language about everyday situations which a student meets either at sort at his/her free time and spoaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3	Improving communicative skills in speaking on general topics and general technical topics.		
rat hisher free time and speaking about them. Writing in a simple way about familiar topics, reading and comprehension of simple texts. Improvement of professional language, 0406070	1 3	. –	
D46070 English - Lower Intermediate			
im: Understanding cloarly 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 at millial rotices. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2. 2 2 2 2 2 3 3 4 3 4 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5		ement of profession	
imiliar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2. 046074	i v	_	1
0.46074 English - Activanced Z 2 2 2 2 2 3 3 3 3 3		them. Writing in a si	mple way about
he aim to comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writine and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficultie transmar structures on advanced level. B1 - B2. 2		7	
wet. Ability to write a summary, a report, an essay, reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties ramman structures on advanced level. Bt - 182. 7	· · · · · · - · · g · · · · · · · · · · · · · · · ·	_	
rammar structures on advanced level. B1 - B2 datoped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficultie and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summany, a report, an essay, reading and comprehension of popular-scientific ricinetian crites for tests from students' fisfel of studies without difficulties. Grammar structures on advanced level. da6072			
2 2 2 2 2 2 2 2 2 2		s ileid of studies with	out difficulties.
lasped to the Common European Framework of Reference Level B1 - 82. The aim: comprehension of spoken English as well as lectures given in English without great difficulties of active participation in a discussion. Written and oral skills on advanced level. Altity to write a summany, a report, an essay, reading and comprehension of popular-scientific acticities or texts from student's field of studies without difficulties. Grammar structures on advanced level. 406072		7	2
nd active participation in a discussion. Written and oral skills on advanced level. Ability to write a summany, a report, an essay, reading and comprehension of popular-scientific at circultic articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 046072		_	1
izentific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. Validador Capilish - Upper Intermediate Z 2			
English - Upper Intermediate Z 2 2 2 2 2 2 2 2 3 3		pronononon or popula	
he aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversor bout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	·	7	2
Dout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. Description English - Upper Intermediate English - English - Upper Intermediate English - English - Reference Level B1. The aim is to extend language skills taking into consideration professional English and common profession ruminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening gran rowledge. English - Beginners Z 2			
lapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common profession riminology. Comprehension of standard English speech and conversation about topics of everyday life in a strong free time, on intermediate level. Broadening gran rowledge. 046068 English - Beginners Z 2 Im: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). A1 046069 English - Beginners Z 2 2 2 2 2 2 2 2 2 2	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	3 - 1	
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raminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening gran rowledge. A		_	_
English - Beginners Z 2 2 2 2 2 2 2 2 3 3 3		_	=
im: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). A1 046069	knowledge.		
English - Beginners Z 2	2046068 English - Beginners	Z	2
lapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic express general scientific terminology (professional language). 046126	Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminolog	y (professional langu	age). A1
general scientific terminology (professional language). O46126	2046069 English - Beginners	Z	2
O46126 Czech Lower Intermediate im: 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 at imiliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46125 Czech Lower Intermediate im: 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 at imiliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46118 Czech -Advanced apped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech without great difficulties citive participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. O46117 Czech -Advanced O72 Czech -Advanced O73 Opherhension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opin fritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. O46127 Czech - Upper Intermediate O72 O20 Defersion and plans. Reading and understanding general and technical texts. O46128 Czech - Upper Intermediate O73 O20 Defersion of standard Speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences are vents, briefly explain one's opinions and plans. Reading and understanding general and technical texts. O46128 Czech - Upper Intermediate O74 O75 O775 O775 O775 O775 O775 O775 O7	Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Unders	standing and use of b	asic expression
im: 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 ab imiliar topics. Reading and comprehension of simple texts. Improvement of professional language. 046125 Czech Lower Intermediate Z 2 im: 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 ab imiliar topics. Reading and comprehension of simple texts. Improvement of professional language. 046118 Czech -Advanced Z 2 lapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech without great difficulties cive participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 046117 Czech -Advanced Z 2 046118 Czech -Advanced Z 2 046127 Czech - Lopper Intermediate Z 2 046127 Czech - Upper Intermediate Z 2 046128 Czech - Upper Intermediate Z 2 046128 Czech - Upper Intermediate Z 2 046129 Czech - Upper Intermediate Z 2 046119 Czech Language for Beginners I.	of general scientific terminology (professional language).		
miliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46125 Czech Lower Intermediate Z 2 Im: 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 at miliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46118 Czech -Advanced Z 2 Iapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech without great difficulties civie participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. O46117 Czech -Advanced Z 2 O46119 Czech -Advanced Z 2 O46128 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46128 Czech - Upper Intermediate Z 2 O46128 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46120 Czech - Upper Intermediate Z 2 O461210 Czech - Upper Intermediate Z 2 O46128 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46129 Czech - Upper Intermediate Z 2 O46120 Czech - Upper Intermediate Z 2 O461210 Czech - Upper Intermediate Czech speech and conversation about topics of everyday life - at school, at work, during f	2046126 Czech Lower Intermediate	Z	2
Czech Lower Intermediate im: 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 ab imiliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46118 Czech -Advanced Z 2 2 apped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech without great difficulties civive participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. O46117 Czech -Advanced Z 2 comprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opin //ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. O46127 Czech - Upper Intermediate Z 2 anderstanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences are vents, briefly explain one's opinions and plans. Reading and understanding general and technical texts. O46128 Czech - Upper Intermediate Z 2 alapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czech and common profession of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening the nowledge technical language.	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 si	mple way about
im: 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 abmilliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46118 Czech -Advanced Z 2 Iapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech without great difficulties ctive participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. O46117 Czech -Advanced Z 2 Omprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opin //ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. O46127 Czech - Upper Intermediate Z 2 Inderstanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences are vents, briefly explain one's opinions and plans. Reading and understanding general and technical texts. O46128 Czech - Upper Intermediate Z 2 Iapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czech and common professional open comprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening the nowledge technical language. O46119 Czech Language for Beginners I. Z 2	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
milliar topics. Reading and comprehension of simple texts. Improvement of professional language. O46118		_	_
Czech -Advanced lapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech without great difficulties crive participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. Odental Czech -Advanced Czech -Advanced Tzech on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opin ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. Odental Czech - Upper Intermediate Czech - Upper Intermediate		them. Writing in a si	mple way about
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ctive participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and cientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. O46117		-	1 -
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O46117 Czech -Advanced omprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opin /ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. O46127 Czech - Upper Intermediate Z 2 anderstanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences are vents, briefly explain one's opinions and plans. Reading and understanding general and technical texts. O46128 Czech - Upper Intermediate Z 2 lapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czech and common professional of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening the nowledge technical language. O46119 Czech Language for Beginners I.		nension of popular-s	cientific and
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Czech - Upper Intermediate Appendix Czech - Upper Intermediate Z 2		Ability to describe exp	Jenences and
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erminology. Comprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening the nowledge technical language. O46119 Czech Language for Beginners I. Z 2	l !!	1	1
nowledge technical language. 046119			-
046119 Czech Language for Beginners I. Z 2	knowledge technical language.		
		7	2
asic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)	Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro	1	· -
			2
lapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic express		1	1
	of general scientific terminology (professional language).	<u> </u>	•

2046086	French - Lower Intermediate Course	Z	2
	rhat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	_	
	nprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	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		
2046091	French - Advanced	Z	2
Mapped to the level of 0	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	pics familiar to the	student.
	ive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ar	nd understanding	exts concerning
	llar scientific and technical articles.	7	
2046090	French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio	D Z	2 Expressing
	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te		-xpressing
2046089	French - Upper Intermediate	Z	2
	Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students of	omes across at w	ork, at school,
during free time, and ta	king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa	anding general and	
2046088	French - Upper Intermediate	Z	2
_	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.	Z	2
2046084	French - Beginners that is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	-	
,	nprehension of simple texts. Improvement of professional language.	iang in a omipio w	ay about farmiar
2046085	French - Beginners' Course	Z	2
Mapped to the level of	Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	a student meets	at school or in
his/her free time and sp	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	of professional lan	guage.
2146060	Indonesian Language Course for Exchange	Z	2
	guage for Student Exchange Program to Indonesia		
2146061	Technical Indonesian - Course I.	Z	2
	an Language for Student Exchange Program to Indonesia	7.71/	
2144062	Technical Indonesian - Course II. Iguage for Student Exchange Program to Indonesia	Z,ZK	3
2046078	German - Lower Intermediate Course	Z	2
	arly what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking about	_	_
_	ading and comprehension of simple texts. Improvement of professional language.		, ,
2046079	German - Lower Intermediate Course	Z	2
	common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which		
	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme	nt of professional	
2046083	German - Advanced Course	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre		-
	s from student's field of studies without difficulties. Grammar structures on advanced level.	orionolori or popul	ar coloriumo aria
2046082	German - Advanced Course	Z	2
Comprehension of spol	en language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati	on in discussions.	Expressing
·	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	chnical articles.	
2046081	German - Upper Intermediate Course	Z	2
	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 understa		
2046080	German - Upper Intermediate Course	Z	2
	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	_	
_	ne's opinions and plans. Reading and understanding general and technical texts.		
2046076	German - Beginners	Z	2
· ·	ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess	sional language) I	t corresponds to
-	Framework of Reference for Languages A1.		
2046077	German - Beginners	Z	2
	nmon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding ploay (professional language)	and use of basic e	expressions of
deneral scientific termin	slogy (protessional language).		2
general scientific termin	Presentations in English		_
2046161	Presentations in English resent in English on technical topics, with a possible co-operation with specialized departments.	Z	
2046161	Presentations in English resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech	Z	2
2046161 Preparing students to p 2046166	resent in English on technical topics, with a possible co-operation with specialized departments.	1	2
2046161 Preparing students to p 2046166 Preparing students to g 2046162	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German	1	2
2046161 Preparing students to p 2046166 Preparing students to g 2046162	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments.	Z	2
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian	Z	
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164 Preparation for presenti	Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian ng technical topics in Russian, possibly in cooperation with specialized departments.	Z Z	2
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164 Preparation for presenti 2046163	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian ng technical topics in Russian, possibly in cooperation with specialized departments. Presentations in French language	Z	2
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164 Preparation for presenti 2046163 Preparation for presenti	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian ng technical topics in Russian, possibly in cooperation with specialized departments. Presentations in French language ng technical topics in French, possibly in cooperation with specialized departments.	Z Z Z	2 2 2
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164 Preparation for presenti 2046163 Preparation for presenti	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian ng technical topics in Russian, possibly in cooperation with specialized departments. Presentations in French language ng technical topics in French, possibly in cooperation with specialized departments. Presentations in Spanish	Z Z	2
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164 Preparation for presenti 2046163 Preparation for presenti 2046165 Preparation for presenti	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian ng technical topics in Russian, possibly in cooperation with specialized departments. Presentations in French language ng technical topics in French, possibly in cooperation with specialized departments. Presentations in Spanish ng technical topics in Spanish, possibly in cooperation with specialized departments.	Z	2 2 2 2
2046161 Preparing students to p 2046166 Preparing students to g 2046162 Preparation for presenti 2046164 Preparation for presenti 2046163 Preparation for presenti 2046165 Preparation for presenti	resent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech ve presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ng technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian ng technical topics in Russian, possibly in cooperation with specialized departments. Presentations in French language ng technical topics in French, possibly in cooperation with specialized departments. Presentations in Spanish	Z Z Z Z Z Z Z	2 2 2 2 2

2046138	Russian - Lower Intermediate Course	Z	2
Mapped to the level	of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which	a student meets at sch	nool or in his/hei
free time and speak	ing about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	orofessional language.	
2046141	Russian - Advanced	Z	2
Comprehension of s	spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, partic	ipation in discussions.	Expressing
opinions. Written ski	lls. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	nd technical articles.	
2046142	Russian - Advanced	Z	2
Mapped to the level	of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian	on topics familiar to th	e student.
Communication with	n native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Readin	ng and understanding t	texts concerning
currant issues and p	opular scientific and technical articles.		
2046140	Russian - Upper Intermediate	Z	2
Mapped to the level	of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a stud	ent meets at work, at s	school, during
free time, and talkin	g about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and under	erstanding general and	I technical texts.
2046139	Russian - Upper Intermediate	Z	2
Understanding stan-	dard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics.	Ability to describe exp	eriences and
events, briefly expla	in one's opinions and plans. Reading and understanding general and technical texts.		
2046136	Russian - Beginners	Z	2
Mapped to the level	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Underst	anding and use of bas	ic expressions
of general scientific	terminology (professional language)		
2046135	Russian - Beginners	Z	2
Basic vocabulary of	everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pi	ofessional language)	
2046099	Spanish - Lower Intermediate	Z	2
Mapped to the level	of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which	a student meets at sch	ool or in his/her
free time and speak	ing about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	orofessional language.	
2046098	Spanish - Lower Intermediate	Z	2
Understanding clear	ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them	n. Writing in a simple w	ay about familia
topics. Reading and	comprehension of simple texts. Improvement of professional language.		
2046096	Spanish - Beginners	Z	2
Aim:Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking abou	t them. Writing in a sim	ple way about
familiar topics. Read	ling and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
Mapped to the Com	mon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations wh	ich a student meets at	school or in
	d speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvem		

List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
	An introductory course in ordinary differential equation and infinite series.		1
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 relation	ins.	,
2011056	Mathematics I	Z,ZK	8
In the course, great	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	s between concep	ts. Students
will also get to know	v the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: e	igennumbers and ϵ	eigenvectors
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
Open and closed	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentiables	al operators div (d	ivergence)
and curl (rotation).	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, i	Fubini theorem. Tra	unsformation
	ir, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
	ce 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	•	
	Gauss-Ostrogradskij theorem.	_	
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
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 relation	ons.	1
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	'	1
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. Different	al operators div (d	livergence)
•	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,		0 ,
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		

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.

2021025 Faraday's law of ele	Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec	Z,ZK tromagnetic waves	4 s. Interaction
	atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and		
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 exper		he lectures.
2021041	Physics I. amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	Z,ZK	7 Oscillations
-	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	-	
	c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire		
	measurements of 11 various experiments related to the lectures.		
2026016	Physics - Seminar	Z	2
0004044	The subject is mainly meant for high-school students for repetition of high-school physics.	717	
202A041	Physics I. Jamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	ZK	3 Oscillations
•	echanics of a particle motion. Frinciple of conservation of energy, system of particles, centre of mass. Rigid body. Continuum, etastic pro- echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	•	I
	c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire		
	measurements of 11 various experiments related to the lectures.		
2041061	English-Bachelor Exam	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 difficult	ies, to take part in o	discussions,
0044000	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	7.71	
2041062	German - Bachelor Exam / FME	Z,ZK	2
wapped to the Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ies, to take part in t	JISCUSSIONS,
2041063	French - Bachelor Exam /FME	Z,ZK	2
	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult		
	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 Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part in o	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 Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ies, to take part in t	JISCUSSIONS,
2046068	English - Beginners	Z	2
	abulary 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
Mapped to the Com	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic	expressions
	of general scientific terminology (professional language).		
2046070	English - Lower Intermediate	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.	Writing in a simple	way about
2046071	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2. English - Lower Intermediate	Z	2
	nmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s	_	
	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	glish speech and c	onversation
	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -		_
2046073	English - Upper Intermediate	_ Z	2
	mmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli- ehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedi-	=	
terminology. Compr	knowledge.	ate level. Broaderiii	ng grammar
2046074	English - Advanced	Z	2
The aim: compreh	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	and oral skills on	advanced
level. Ability to wri	te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without	difficulties.
0040075	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 Engation 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.	ророна се	
2046076	German - Beginners	Z	2
Basic vocabulary of	everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profession	al language) It cor	responds to
	the Common European Framework of Reference for Languages A1.		
2046077	German - Beginners	Z	2
iviapped to the levi	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).	a use or basic expi	ressions of
2046078	German - Lower Intermediate Course	Z	2
	g clearly what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking about		
	about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
	of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a		I
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	t of professional la	anguage.

2046080			
20 10000	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
	events, briefly explain one 's opinions and plans. Reading and understanding general and technical texts.		
2046081	German - Upper Intermediate Course	Z	2
	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com		
	nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding		
2046082	German - Advanced Course	7	2
I	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		2
* *	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge	_	
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	nsion of popular-so	cientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
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	in a simple way at	oout familiar
_	topics. Reading and comprehension of simple texts. Improvement of professional language.		
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	. – .	
	he and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046086	French - Lower Intermediate Course		2
Understanding clea	rrly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	j in a simple way at	oout familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
Mapped to the leve	el of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	chool or in
	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046088	French - Upper Intermediate	7	2
1	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	_	
Understanding sta		to describe expend	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	_	_
2046089	French - Upper Intermediate	Z	2
Mapped to the leve	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	nes across at work,	at school,
during free time, an	nd talking about these topics. Ability to describe experiences and events, explain one´s opinions and plans. Reading and understandin	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	i in discussions. Ex	pressing
=	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		1
2046091	French - Advanced	Z	2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to		
	h native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	•	Student.
Communication with	irrialive speakers, participation in discussions. Expressing opinions, written skiils. Ability to write an essay or a report. Neading and d	ndoretanding toyte	concorning
		nderstanding texts	concerning
	currant issues and popular scientific and technical articles.	-	
2046096	currant issues and popular scientific and technical articles. Spanish - Beginners	Z	2
1	currant issues and popular scientific and technical articles.	Z	2
1	currant issues and popular scientific and technical articles. Spanish - Beginners	Z	2
Aim:Understanding	currant issues and popular scientific and technical articles. Spanish - Beginners 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	2 way about
Aim:Understanding	currant issues and popular scientific and technical articles. Spanish - Beginners 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	2 way about
Aim:Understanding 2046097 Mapped to the Co	currant issues and popular scientific and technical articles. Spanish - Beginners 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. Spanish - Beginners ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a second content of the conten	Z Writing in a simple Z student meets at so	2 way about 2 chool or in
Aim:Understanding 2046097 Mapped to the Co	currant issues and popular scientific and technical articles. Spanish - Beginners 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. Spanish - Beginners ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a see and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	Z Writing in a simple Z student meets at so	2 way about 2 chool or in aguage.
Aim:Understanding 2046097 Mapped to the Control his/her free tim 2046098	currant issues and popular scientific and technical articles. Spanish - Beginners 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. Spanish - Beginners ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a see and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Spanish - Lower Intermediate	Z Writing in a simple Z student meets at so of professional lan	2 way about 2 chool or in aguage. 2
Aim:Understanding 2046097 Mapped to the Control his/her free tim 2046098	currant issues and popular scientific and technical articles. Spanish - Beginners 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. Spanish - Beginners ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a see and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Spanish - Lower Intermediate urly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	Z Writing in a simple Z student meets at so of professional lan	2 way about 2 chool or in aguage. 2
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2046128	Czech - Upper Intermediate	Z	2
	nmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz		
terminology. Com	prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	ediate level. Broad	dening the
	knowledge technical language.		1
2046135	Russian - Beginners	Z	2
Basic voca	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	ge)
2046136	Russian - Beginners	Z	2
Mapped to the leve	el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basic e	expressions
	of general scientific terminology (professional language)		
2046137	Russian - Lower Intermediate Course	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	in a simple way al	bout familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
Mapped to the leve	l of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer	nt meets at school	or in his/her
free time a	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	orofessional langua	age.
2046139	Russian - Upper Intermediate	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 experi	ences and
	events, briefly explain one 's opinions and plans. Reading and understanding general and technical texts.		
2046140	Russian - Upper Intermediate	Z	2
Mapped to the lev	el of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me	ets at work, at sch	ool, during
free time, and talkir	ng about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understandi	ng general and tec	hnical texts.
2046141	Russian - Advanced	Z	2
Comprehension of	of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participatio	n in discussions. E	xpressing
opinions. V	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical articl	es.
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	_	1
	h native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u		
	currant issues and popular scientific and technical articles.	Ü	Ū
2046155	English Conversation	Z	2
2010100	Improving communicative skills in speaking on general topics and general technical topics.	_	_
2046156	English Conversation	Z	2
2040100	Improving communicative skills in speaking on general topics and general technical topics.	_	_
2046161	Presentations in English	Z	2
2040101	Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.		
2040402		7	
2046162	Presentations in German	Z	2
	Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
	Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.		1
2046164	Presentations in Russian	Z	2
	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
	Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.		
2046166	Presentations in Czech	Z	2
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department	ents.	•
2131002	Engineering Design II	Z,ZK	4
Principles of ISO G	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	1	al tolerance,
dimensional loo	ps, 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
	ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, t	'	
	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines		•
J	DC-machines	•	
2144062	Technical Indonesian - Course II.	Z,ZK	3
2111002	Basic of Indonesian Language for Student Exchange Program to Indonesia	2,21	
2146060	Indonesian Language Course for Exchange	Z	2
2140000	Basic of Indonesian Language for Student Exchange Program to Indonesia		2
04.40004		7	
2146061	Technical Indonesian - Course I.	Z	2
	Second part of Indonesian Language for Student Exchange Program to Indonesia		
2182019	Chemistry	KZ	3
	y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		-
phase equilibrium	n, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemical reactions.	mistry. Laboratory	practice is
	oriented upon the material properties measurement.		I
2321039	Materials Science II.	Z,ZK	4
Fundamentals of m	etallurgy, 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 material		
2321067	Technical Application of Materials	Z,ZK	5
	plikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým treno		The subject
describ	pes 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
	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor		
fracture of mate	rials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, in	con-carbon phase (diagram

2322091	Project	KZ	2
On the basis of the	e preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	valuating the stud	died literature
with particular	emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	evaluate hitherte	oobtained
	knowledge or results.		
2331068	Technology I.	Z,ZK	5
Foundry propertie	s of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form	ing processes. Se	emi-products,
	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatment	S.	
2331071	Automation of Production Processes	Z,ZK	5
Automation of bas	ic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizati	on and automation	on in iron and
steel foundries.	Automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De	signing and prog	ramming of
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		
2332091	Project	KZ	2
2333038	Fundamentals of Technology I.	Z	3
Production proce	sses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techno	ical metals. Prod	uction of pig
iron and steel. Ca	asting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech	nology. 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 welc	ling. Fusion weld	ing: Flame
	welding and arc welding with coated electrodes. Thermal cutting.		
2341014	Technology II.	Z,ZK	5
mechanics of chip	formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economic	nics. Automation	of processes,
	programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.		
2342005	Quality Control	KZ	2
Basic quality cont	rol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statisti	cal process conti	ol, statistical
sa	mpling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ntrol systems.	
2342091	Project	KZ	2
	Work on specialized tasks.		,
2372041	Computer Support for Study	KZ	3
The course introdu	uces students into creating technical and professional documents on computers or Web and into realizing technical computations with the	ne use of comput	ers. Students
gain praction	cal skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni	cal-based WWW	page.
2383001	Fundamentals of Law	Z	2
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 provid	e a view into the	Czech Legal
Order, particular s	sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is no	ecessary for stud	ents to know
our legal instituti	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
leads students to	know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation	ships and to mak	e them ready
	to prepare professional presentations and to understand basic structures between law and engineering		
2383009	Communication and Dealing with People	Z	2
Human commun	ication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (vertically all of his activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.	vith specific mod	ifications) to

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-08-01, time 04:26.