Study plan

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

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Welcome page Type of study: unknown combined Required credits: 178 Elective courses credits: 0 Sum of credits in the plan: 178 Note on the plan: první pokus

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 167 The role of the block: P

Code of the group: 12B-KMEN* VES Name of the group: 01 2012 souhrn 12B**1P-KMEN a 12B**2P-KMEN Requirement credits in the group: In this group you have to gain 50 credits Requirement courses in the group: In this group you have to complete 11 courses Credits in the group: 50

Note on the group:

	9.00p.					
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.)	КZ	3	2P+1C	1	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Ρ
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	*	Ρ
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.)	КZ	3	2P+1L	2	Ρ
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	КZ	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	Ρ

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

2182019	Chemistry	KZ	3			
General chemistry from	the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properti	es of matter, therr	nodynamics,			
phase equilibrium, cher	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laborator	ry practice is			
oriented upon the mate	iented upon the material properties measurement.					
2021041 Physics I. Z,ZK 7						
Kinematics and dynami	es of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of bod	lies. Oscillations,			
waves. Fluid mechanics	. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semicor	nductors,			
insulators. Magnetic fiel	d. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	lirect measuremer	nts, regression,			
measurements of 11 va	rious experiments related to the lectures.					
2011021	Constructive Geometry	Z,ZK	6			
The subject is focused of	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.					

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2011056 Mathematics I	Z,ZK	8				
In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connectic	ons between co	ncepts. 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 a	and eigenvectors				
of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	f 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. Different	tial operators div	v (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 Gree	en'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	or field through	a surface. The				
Gauss-Ostrogradskij theorem.	-					
2322029 Materials Science I.	KZ	3				
History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrysta	allization and				
fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iron	n-carbon phase	diagram.				
2012037 Computer Graphics	KZ	3				
2372041 Computer Support for Study	KZ	3				
The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with	n the use of com	puters. Students				
gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.						
2131002 Engineering Design II	Z,ZK	4				
Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	e texture, geom	etrical 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	n lectures.				

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

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

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

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

Credits in the group: 6

Note on the group:

	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р

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

K333038Fundamentals of Technology I.Z3Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technical metals. Production of pigiron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging.Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flamewelding and arc welding with coated electrodes. Thermal cutting.

Code of the group: 12BVK3P

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

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

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

Credits in the group: 30

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Ρ
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	*	Ρ
K331068	Technology I	Z,ZK	5	16B	*	Р

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

2021025	Physics II.	Z,ZK	4				
Faraday's law of electro	Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interactic						
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.	Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures.						
2011009 Mathematics III Z,ZK 5							
An introductory course	n introductory course in ordinary differential equation and infinite series.						

2321039	Materials Science II.	Z,ZK	4			
Fundamentals of metall	Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing,					
technical iron-carbon al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.					
K331068	Technology I	Z,ZK	5			
Foundry properties of m	Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,					
heating-up, Cutting, Col	d and hot forming. Welds, Weldability, Weldment testing, Thermal cutting, Brasing, Surface treatment,					

Code of the group: 12BVK4P Name of the group: 09 2012 BVES 4.sem kombi povinné Requirement credits in the group: In this group you have to gain 22 credits Requirement courses in the group: In this group you have to complete 5 courses Credits in the group: 22 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2342005	Quality Control	KZ	2	1P+1C+1L	*	Р
K341014	Technology II.	Z,ZK	5	8KP+8KC	*	Р

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

asic quality control terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical process control, statistical					
ampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.					
K341014 Technology II. Z,ZK	5				

Code of the group: 12BV*5P

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

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

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

Credits in the group: 11

Note on the group:

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

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

2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4			
Elements of electrical c	rcuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistor	s, thyristors,opera	tion amplifiers.			
Analogue and digital cir	nalogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines.					
DC-machines						
2383001	Fundamentals of Law	Z	2			
Basic orientation in lega	al system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to pro	ovide a view into t	he Czech Legal			
Order, particular source	es of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It	is necessary for s	tudents to know			
our legal institutions, the	pur 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	ds students to know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relationships and to make them ready					
to prepare professional	presentations and to understand basic structures between law and engineering					

Code of the group: 12BV*5P-EKO Name of the group: 14 2012 BVES 5.sem zam EKO povinné Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 18 Note on the group:

Code of the group: 12BV*6P Name of the group: 15 2012 BVES 6.sem povinné Requirement credits in the group: In this group you have to gain 9 credits

Requirement courses in the group: In this group you have to complete 2 courses Credits in the group: 9 Note on the group:

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

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

2331071Automation of Production ProcessesZ,ZK5Automation 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.Z,ZK5

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

Name of the group: 16 2012 BVES 6.sem zam EKO povinné Requirement credits in the group: In this group you have to gain 21 credits Requirement courses in the group: In this group you have to complete 5 courses Credits in the group: 21 Note on the group:

Name of the block: Compulsory elective courses Minimal number of credits of the block: 11 The role of the block: PV

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

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

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

Requirement courses in the group: In this group you have to complete at least 1 course (at most 3) Credits in the group: 2

Note on the group: Ze skupiny humanitních předmětů nutno j e d e n absolvovat
Name of the course / Name of the group of courses
(mage of anyme of the group of courses)

Code	(in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2383009	Communication and Dealing with People Jan Horejc, Vladimír Brdek Jan Horejc Jan Horejc (Gar.)	Z	2	1P+1C	*	PV

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

2383009 Communication and Dealing with People Z 2 Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.

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

Name of the group: 11 2012 bakalá ské zkoušky z jazyk pro VES Requirement credits in the group: In this group you have to gain at least 2 credits (at most 10) Requirement courses in the group: In this group you have to complete at least 1 course (at most 5) Credits in the group: 2

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice (Gar.)	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV

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

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

2041061 English-Bachelor Exam Z,ZK	2
	~
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in dis	liscussions,
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 Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in dis	liscussions,
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 Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in dis	liscussions,
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 Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in dis	liscussions,
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 Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in dis	liscussions,
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

P edm t popisuje aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto skupin. The subject describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.

5

7.7K

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.)	κz	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV
2342091	Project	KZ	2	0P+2C	*	PV

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

2322091	Project	KZ	2						
On the basis of the pre	On the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature								
with particular emphas	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.								

Code of the group: 12BV**V-ALFA Name of the group: 02 2012 ALFA volitelné pro VES Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
202A041	Physics I.	ZK	3	0P+0L	*	V
201A021	Constructive Geometry A Ivana Linkeová	ZK	3	0P+0C	*	V
201A056	Mathematics I.A Radka Keslerová	ZK	4	0P+0C	*	V
201A062	Mathematics II.A Radka Keslerová	ZK	4	0P+0C	*	V

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

202A041	Physics I.	ZK	3
Kinematics and dyna	mics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of bod	lies. Oscillations,
waves. Fluid mechar	ics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	onductors, semicor	nductors,
insulators. Magnetic	field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and in	direct measureme	nts, regression,
measurements of 11	various experiments related to the lectures.		
201A021	Constructive Geometry A	ZK	3
The subject is focus	ed on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
201A056	Mathematics I.A	ZK	4
Introduction to linear	algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
201A062	Mathematics II.A	ZK	4
Open and closed set	, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Difference	ential operators div	v (divergence)
and curl (rotation). Fu	nction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integ	ral, Fubini theorem	n. Transformation
of integrals to polar,	cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and G	reen'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 ve	ctor field through a	a surface. The
Gauss-Ostrogradski	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:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their	Completion	Credits	Scope	Semester	Role
	members) Tutors, authors and guarantors (gar.)					
2046155	English Conversation Ilona Ŝimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, 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	V
2046127	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I. Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	z	2	0P+2C	z	V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	z	2	0P+2C	z	V
2046085	French - Beginners´ Course Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V

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

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

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

0040074	For effects of the second state	7	0	
2046071	English - Lower Intermediate	Z	2	
Mapped to the Commo	European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets e	either at school	
or at his/her free time a	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professiona	I language.	
2046070	English - Lower Intermediate	Z	2	
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	I – I		
-	and comprehension of simple texts. Improvement of professional language. A1 - A2.		ipio way about	
			-	
2046074	English - Advanced	Z	2	
The aim: comprehension	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	ten and oral skills	on advanced	
level. Ability to write a s	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	eld of studies witho	out difficulties.	
Grammar structures on	advanced level. B1 - B2.			
2046075	English - Advanced	7	2	
		ı — ı	_	
	n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E			
and active participation	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre	hension of popula	r-scientific and	
scientific articles or text	s from student's field of studies without difficulties. Grammar structures on advanced level.			
2046072	English - Upper Intermediate	Z	2	
	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	–	- 1	
		a English speech a		
	/ life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.			
2046073	English - Upper Intermediate	Z	2	
Mapped to the Commo	European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	glish and commor	n professional	
terminology. Comprehe	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broa	dening grammar	
knowledge.			55	
2046068	English - Beginners	Z	2	
Aim: Basic vocabulary	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	age). A1	
2046069	English - Beginners	Z	2	
	European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	I – I	_	
		iuling and use of be	asic expressions	
-	ninology (professional language).	· · · · · · · · · · · · · · · · · · ·		
2046126	Czech Lower Intermediate	Z	2	
Aim: Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sin	nple way about	
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language.	-		
2046125		7	2	
	Czech Lower Intermediate	<u> </u>		
Aim: Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	em. Writing in a sin	nple way about	
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language.			
2046118	Czech -Advanced	Z	2	
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C	I – I		
		-		
active 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				
scientific articles or text	s from student's field of studies without difficulties. Grammar structures on advanced level.			
2046117	Czech -Advanced	Z	2	
Comprehension of spok	en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	discussions. Expr	essing opinions.	
	vrite an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	-	5 9 9 9	
		1 1		
2046127	Czech - Upper Intermediate	Z	2	
Understanding standard	I 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	
events, briefly explain o	ne's opinions and plans. Reading and understanding general and technical texts.			
2046128	Czech - Upper Intermediate	Z	2	
		I I		
	European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional		-	
terminology. Comprehe	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter	mediate level. Bro	adening the	
knowledge technical lar	guage.			
2046119	Czech Language for Beginners I.	Z	2	
	ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	I – I	-	
2046120	Czech Language for Beginners II.	Z	2	
Mapped to the Common	European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	iding and use of ba	asic expressions	
of general scientific terr	ninology (professional language).			
2046086	French - Lower Intermediate Course	Z	2	
		1 – 1		
	hat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	iting in a simple wa	ay about familiar	
topics. Reading and cor	nprehension of simple texts. Improvement of professional language.			
2046087			2	
Mapped to the level of (French - Lower Intermediate Course	Z		
		I I	at school or in	
his/her free time and en	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which	a student meets a		
	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	a student meets a of professional lan	guage.	
2046091	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced	a student meets a of professional lan	guage. 2	
2046091	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	a student meets a of professional lan	guage. 2	
2046091 Mapped to the level of 0	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced	a student meets a of professional lan Z pics familiar to the	guage. 2 student.	
2046091 Mapped to the level of (Communication with na	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and	a student meets a of professional lan Z pics familiar to the	guage. 2 student.	
2046091 Mapped to the level of Communication with na currant issues and popul	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and lar scientific and technical articles.	a student meets a of professional lan Z pics familiar to the nd understanding t	guage. 2 e student. texts concerning	
2046091 Mapped to the level of 0 Communication with na currant issues and popu 2046090	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and Ilar scientific and technical articles. French - Advanced	a student meets a of professional lan Z pics familiar to the nd understanding t	guage. 2 e student. texts concerning 2	
2046091 Mapped to the level of 0 Communication with na currant issues and popu 2046090 Comprehension of spol	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	a student meets a of professional lan Z pics familiar to the nd understanding t Z n in discussions. E	guage. 2 e student. texts concerning 2	
2046091 Mapped to the level of 0 Communication with na currant issues and popu 2046090 Comprehension of spol	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ar ilar scientific and technical articles.	a student meets a of professional lan Z pics familiar to the nd understanding t Z n in discussions. E	guage. 2 e student. texts concerning 2	
2046091 Mapped to the level of 0 Communication with na currant issues and popu 2046090 Comprehension of spol opinions. Written skills.	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	a student meets a of professional lan Z pics familiar to the nd understanding t Z n in discussions. E	guage. 2 e student. texts concerning 2	
2046091 Mapped to the level of Communication with na currant issues and popu 2046090 Comprehension of spol opinions. Written skills. 2046089	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate	a student meets a of professional lan Z pics familiar to the nd understanding t Z n in discussions. E echnical articles. Z	guage. 2 e student. texts concerning 2 Expressing 2	
2046091 Mapped to the level of Communication with na currant issues and popu 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of C	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ar lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students of the student speaker and the speaker and the student speaker and the speaker and the speaker and the speaker and the student speaker and the student speaker and the spea	a student meets a of professional lan pics familiar to the nd understanding to C C C C C C C C C C C C C C C C C C n in discussions. E echnical articles. C C C C C C C C C C C C C C C C C C C	guage. 2 student. texts concerning 2 Expressing 2 prk, at school,	
2046091 Mapped to the level of Communication with na currant issues and popu 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of C during free time, and ta	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students or king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding texts concerning standard speech about familiar topics, that a students or king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding texts concerning standard speech about familiar topics, that a students or king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding standard speech about familiar topics.	a student meets a of professional lan Z pics familiar to the nd understanding t Z n in discussions. E echnical articles. Z omes across at we anding general and	guage. 2 s student. texts concerning 2 Expressing 2 prk, at school, d technical texts.	
2046091 Mapped to the level of Communication with na currant issues and popu 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of C	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ar lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students of the student speaker and the speaker and the student speaker and the speaker and the speaker and the speaker and the student speaker and the student speaker and the spea	a student meets a of professional lan pics familiar to the nd understanding to C C C C C C C C C C C C C C C C C C n in discussions. E echnical articles. C C C C C C C C C C C C C C C C C C C	guage. 2 student. texts concerning 2 Expressing 2 prk, at school,	
2046091 Mapped to the level of Communication with na currant issues and popu 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of C during free time, and ta 2046088	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an lar scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students or king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding texts concerning standard speech about familiar topics, that a students or king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding texts concerning standard speech about familiar topics, that a students or king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding standard speech about familiar topics.	a student meets a of professional lan Z pics familiar to the nd understanding t Z n in discussions. E echnical articles. Z omes across at we anding general and Z	guage. 2 s student. texts concerning 2 Expressing 2 ork, at school, d technical texts. 2	

2046084	French - Beginners	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	1 1	_
	mprehension of simple texts. Improvement of professional language.	5 1 1	,
2046085	French - Beginners' Course	Z	2
	Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	. – .	
	beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of		
2146060	Indonesian Language Course for Exchange	Z	2
	nguage for Student Exchange Program to Indonesia		2
2146061	Technical Indonesian - Course I.	Z	2
	sian Language for Student Exchange Program to Indonesia		2
		7 71/	2
2144062	Technical Indonesian - Course II.	Z,ZK	3
	nguage for Student Exchange Program to Indonesia		
2046078	German - Lower Intermediate Course	Z	2
-	early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	em. Writing in a sim	ple way about
	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 whic		
	Ind speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme	nt of professional I	
2046083	German - Advanced Course	Z	2
Mapped to the level of	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in	n German without g	great difficulties
and active participation	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre	ehension of popula	r-scientific and
scientific articles or text	ts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046082	German - Advanced Course	Z	2
Comprehension of spo	ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati	ion in discussions.	Expressing
opinions. Written skills.	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 c	omes across at wo	ork, at school,
	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa		
2046080	German - Upper Intermediate Course	7	2
	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	. – .	_
-	one's opinions and plans. Reading and understanding general and technical texts.		
2046076	German - Beginners	Z	2
	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	1 1	2
2046077	German - Beginners	Z	2
	mmon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic e	xpressions or
-	nology (professional language).		
2046161	Presentations in English	Z	2
-	present in English on technical topics, with a possible co-operation with specialized departments.		
2046166	Presentations in Czech	Z	2
Preparing students to g	jive presentations in English on technical topics, with a possible co-operation with specialized departments.		
2046162	Presentations in German	Z	2
Preparation for present	ing technical topics in German, possibly in cooperation with specialized departments.		
2046164	Presentations in Russian	Z	2
	ing technical topics in Russian, possibly in cooperation with specialized departments.	1 1	
2046163	Presentations in French language	Z	2
	ing technical topics in French, possibly in cooperation with specialized departments.		-
2046165	Presentations in Spanish	Z	2
	ing technical topics in Spanish, possibly in cooperation with specialized departments.		2
		7	
2046137	Russian - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	iung in a simple wa	y about familiar
	mprehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
	Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stu		ool or in his/her
	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profes		
2046141	Russian - Advanced	Z	2
	ken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participati		Expressing
-	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	chnical 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 ti	opics familiar to the	e student.
	ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an	nd understanding to	exts concerning
currant issues and pop	ular 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 student n	neets at work, at s	chool, during
free time, and talking a	bout these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understa	nding general and	technical texts.
2046139	Russian - Upper Intermediate	Z	2
	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe expe	eriences and
-	one's opinions and plans. Reading and understanding general and technical texts.		
2046136	Russian - Beginners	Z	2
	Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understandi	1 1	
	minology (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 (professional 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 school or in his/her					
free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.					
2046098	Spanish - Lower Intermediate	Z	2		
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar					
topics. Reading and comprehension of simple texts. Improvement of professional language.					
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 about them. Writing in a simple way about					
familiar topics. Reading	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.				
2046097	Spanish - Beginners	Z	2		
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in					
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.					

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.	-	
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	ons.	
2011056	Mathematics I	Z,ZK	8
In the course, great	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	is between concep	ts. 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: e	igennumbers and e	eigenvectors
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
1 .	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different		
	function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,		
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer	-	
field, independent	e 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.	or field through a si	urface. The
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	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		
201A062	Mathematics II.A	ZK	4
1	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different	1	livergence)
and curl (rotation). F	unction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,	Fubini theorem. Tra	insformation
of integrals to pola	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer	n's theorem. A pote	ential vector
field, independend	e of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vecto	or field through a s	urface. The
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
Faraday's law of ele	ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves.	tromagnetic waves	s. Interaction
of radiation with m	atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	periodic system of	f elements.
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expe	riments related to	the lectures.
2021041	Physics I.	Z,ZK	7
	amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro		
	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co		
insulators. Magneti	c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire	ct measurements,	regression,
	measurements of 11 various experiments related to the lectures.	_	-
2026016	Physics - Seminar	Z	2
	The subject is mainly meant for high-school students for repetition of high-school physics.		
202A041	Physics I.	ZK	3
	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	•	
	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co		
insulators. Magneti	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.	ci measurements,	regression,
2044064		7 71/	2
2041061	English-Bachelor Exam	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.		
2041062	German - 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	ties, to take part in	discussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		

2041063	French - Bachelor Exam /FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	Z,ZK	2
mapped to the Con	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 Con	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 o	discussions
2041065	Russian - 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	,	
2040000	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	7	0
2046068 Aim: Basic voc	English - Beginners abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	Z rofessional langua	2
2046069	English - Beginners	Z	2
	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	—	
2046070	of general scientific terminology (professional language).	Z	2
	English - Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	_
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	_	-
2046071	English - Lower Intermediate	Z	2
	nmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a 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
	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard En	_	
	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 Englis		
terminology. Comp	ehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedia knowledge.	ate level. Broadeni	ng gramma
2046074	English - Advanced	Z	2
The aim: comprel	hension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	n and oral skills on	advanced
level. Ability to wr	te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field Grammar structures on advanced level. B1 - B2.	of studies without	difficulties.
2046075	English - Advanced	Z	2
	mmon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English	glish without great	difficulties
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	ision of popular-sc	ientific and
2046076	German - Beginners	Z	2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	
2046077	German - Beginners	Z	2
Mapped to the leve	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding and	d use of basic exp	ressions of
	general scientific terminology (professional language).		
2046078	German - Lower Intermediate Course	Z	2
Aim: Understandir	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.	vvriting in a simple	way about
2046079	German - Lower Intermediate Course	7	2
	of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	-	_
	time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemen		
2046080	German - Upper Intermediate Course	Z	2
Understanding st	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.		
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 Id talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandir		
2046082	d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandir German - Advanced Course	ry general and tec 7	nnical texts
	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	∠ n in discussions. E	
	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
opinions.			2
2046083	German - Advanced Course	Z	
2046083 Mapped to the leve	German - Advanced Course I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe	erman without grea	
2046083 Mapped to the leve and active particip	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	erman without great nsion of popular-so	cientific and
2046083 Mapped to the leve and active particip 2046084	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen	erman without great nsion of popular-so Z	cientific and
2046083 Mapped to the leve and active particip 2046084 Understanding clea	I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners Irly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	erman without grea nsion of popular-so Z in a simple way al	cientific and 2 pout familia
2046083 Mapped to the leve and active particip 2046084 Understanding clea 2046085	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. French - Beginners' Course	erman without grea nsion of popular-so Z in a simple way al	cientific and 2 pout familia 2
2046083 Mapped to the leve and active particip 2046084 Understanding clea 2046085 Mapped to the leve	I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. French - Beginners' Course el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a	erman without great nsion of popular-so Z in a simple way al Z student meets at s	cientific and 2 bout familia 2 chool or in
2046083 Mapped to the leve and active particip 2046084 Understanding clea 2046085 Mapped to the leve	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. French - Beginners' Course	erman without great nsion of popular-so Z in a simple way al Z student meets at s	cientific and 2 bout familia 2 chool or in
2046083 Mapped to the leve and active particip 2046084 Understanding clea 2046085 Mapped to the lev his/her free tin 2046086	I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners Irly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. French - Beginners´ Course el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a ue and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Lower Intermediate Course Irly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	rman without great nsion of popular-so Z in a simple way al Z student meets at s of professional lar Z	cientific and 2 pout familia 2 chool or in iguage. 2
2046083 Mapped to the leve and active particip 2046084 Understanding clea 2046085 Mapped to the lev his/her free tin 2046086 Understanding clea	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners Inly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. French - Beginners Course el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a te and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Lower Intermediate Course Infy what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	rman without great nsion of popular-so Z in a simple way at Z student meets at s of professional lar Z in a simple way at	cientific and 2 pout familia 2 chool or in iguage. 2 pout familia
2046083 Mapped to the leve and active particip 2046084 Understanding clea 2046085 Mapped to the lev his/her free tin 2046086 Understanding clea 2046087	I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners Irly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. French - Beginners´ Course el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a ue and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Lower Intermediate Course Irly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	rman without great nsion of popular-so Z in a simple way at Z student meets at s of professional lar Z in a simple way at Z	cientific and 2 pout familia 2 chool or in nguage. 2 pout familia 2

2046088 Understanding st			1
Understanding st	French - Upper Intermediate	Z	2
	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to describe exper	iences and
2046089	French - Upper Intermediate	Z	2
	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	_	1
••	Ind talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandir		
2046090	French - Advanced	7	2
	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	in discussions. E	1
•	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046091	French - Advanced	Z	2
	level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on top	pics familiar to the	
	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.		
2046096	Spanish - Beginners	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.	Nriting in a simple	e way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
Mapped to the C	ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	tudent meets at s	chool or in
his/her free tin	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional la	nguage.
2046098	Spanish - Lower Intermediate	Z	2
Understanding clea	arly 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 a	bout familia
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate	Z	2
	el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studen		
free time a	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p		
2046117	Czech -Advanced	Z	2
•	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc		ing opinions
	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	chnical articles.	
2046118	Czech -Advanced	Z	2
	I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	-	
active participati	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehensi	on of popular-scie	entific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p		<u> </u>
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Con	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
0040405	of general scientific terminology (professional language).	7	0
2046125	Czech Lower Intermediate Czech student meets at school or in his/her free time and speaking about them.	Ζ	2
Aim: Understandir		Alriting in a aimpl	a waxa ahaw
		Writing in a simple	e way about
2046126	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		-
2046126	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate	Z	2
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z	2
Aim: Understandir	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	Z Writing in a simple	2 e way abour
Aim: Understandir	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate	Z Writing in a simple Z	2 e way abou
Aim: Understandir	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	Z Writing in a simple Z	2 e way about
Aim: Understandir 2046127 Understanding st	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z Writing in a simple Z to describe exper	2 e way about 2 iences and
Aim: Understandir 2046127 Understanding st 2046128	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate	Z Writing in a simple Z to describe exper	2 e way about ences and 2
Aim: Understandir 2046127 Understanding st 2046128 Mapped to the Cor	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z Writing in a simple Z to describe exper Z ech and common	2 e way abou 2 iences and 2 professiona
Aim: Understandir 2046127 Understanding st 2046128 Mapped to the Cor	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Czech - Upper Intermediate andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czech	Z Writing in a simple Z to describe exper Z ech and common	2 e way abou 2 iences and 2 professiona
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2046142 Russian - Advanced Z Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familic Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understandi currant issues and popular scientific and technical articles. Z 2046155 English Conversation Z Improving communicative skills in speaking on general topics and general technical topics. Z 2046161 English Conversation Z Improving communicative skills in speaking on general topics and general technical topics. Z 2046161 Preparing students to present in English on technical topics, with a possible co-operation with specialized departments. Z 2046162 Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. Z 2046163 Preparation for presenting technical topics in French, language Z 2046164 Presentations in Russian Z 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2046164 Presentations in Spanish Z 2046165 <td< th=""><th>ar to the student. ing texts concern 2 2 2 2 2 2 2 2 2 2 2 2 2</th></td<>	ar to the student. ing texts concern 2 2 2 2 2 2 2 2 2 2 2 2 2
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Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchron	
DC-machines	ious machines.
2144062 Technical Indonesian - Course II. Z,Z	<u>2</u> K 3
Basic of Indonesian Language for Student Exchange Program to Indonesia	
2146060 Indonesian Language Course for Exchange Z	2
Basic of Indonesian Language for Student Exchange Program to Indonesia	
2146061 Technical Indonesian - Course I. Z	2 2
Second part of Indonesian Language for Student Exchange Program to Indonesia	
2182019 Chemistry KZ	Z 3
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,	thermodynamic
phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Lab	oratory practice
oriented upon the material properties measurement.	
2321039 Materials Science II. Z,Z	'K 4
undamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mec	nanical processi
technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.	
2321067 Technical Application of Materials Z,Z	<u>7</u> K 5
edm t popisuje aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto	skupin. The sub
describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials a	as well.
2322029 Materials Science I. KZ	Z 3
	1
History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, deformation, record presenting of metarials and their testing fundamentals of thermodynamics, phases and phase transformations are entropy of the structure of metals, and their states are entropy of the structure of metals, and the structure	
fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iron-carbon	
2322091 Project KZ	Z 2
In the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the	he studied literat
with particular emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate l	hitherto obtained
knowledge or results.	
	'K 5
2331071 Automation of Production Processes Z,Z	
2331071 Automation of Production Processes Z,Z Automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automate offices.	tomation in iron a
2331071 Automation of Production Processes Z,Z automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers.	tomation in iron a
2331071 Automation of Production Processes Z,Z automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers. Designing and programming of automated finishing lines.	tomation in iron and programming
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2331071 Automation of Production Processes Z,Z utomation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of automated finishing lines. 2332091 Project KZ 2342005 Quality Control KZ	tomation in iron and programming Z 2 Z 2
2331071 Automation of Production Processes Z,Z utomation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of automated finishing lines. 2332091 Project KZ 2342005 Quality Control KZ	tomation in iron a nd programming Z 2 Z 2 ss control, statisti
2331071 Automation of Production Processes Z,Z utomation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and autorate of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers. Designing and robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines. 2332091 Project KZ 2342005 Quality Control KZ Basic quality control terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical process sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control system	tomation in iron a nd programming Z 2 Z 2 ss control, statisti ems.
2331071 Automation of Production Processes Z,Z utomation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and autorate offices. Automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers. Designing and programming of automated finishing lines. 2332091 Project KZ 2342005 Quality Control KZ Basic quality control terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical process sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control system 2342091	tomation in iron a nd programming Z 2 Z 2 ss control, statisti ems.
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2383009	Communication and Dealing with People	Z	2		
Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to					
	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.				
K331068	Technology I	Z,ZK	5		
Foundry properties	Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,				
heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.					
K333038	Fundamentals of Technology I.	Z	3		
Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technical metals. Production of pig					
iron and steel. Ca	iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging.				
Free and drop for	Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame				
	welding and arc welding with coated electrodes. Thermal cutting.				
K341014	Technology II.	Z,ZK	5		

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-12, time 11:10.