Study plan

Name of study plan: 17 86 90 00 DVES 2012 K úvodní studijní plán

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: 90
Elective courses credits: 88
Sum of credits in the plan: 178
Note on the plan: SP12BVES-EKO-K # první pokus

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 81 The role of the block: P

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

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

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

2342005	42005 Quality Control						
Basic quality control ter	Basic quality control terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical process control, statistical						
sampling. Tools and me	thods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control syster	ns.					
K341014	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	cuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines.	Synchronous ma	chines.
DC-machines			

2383001	Fundamentals of Law	Z	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	the Czech Legal
Order, particular source	s 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	at will be regularly in touch with, especially during their professional career and to learn how to work with the collection of law	s. At the same tir	ne the course
leads students to know	some practical habits and processes while putting the law on, especially in domain of contracts and other important legal rela	tionships and to r	nake them ready
to prepare professional	presentations and to understand basic structures between law and engineering		
Code of the gr	oup: 12BV*5P-EKO		
Name of the g	roup: 14 2012 BVES 5.sem zam EKO povinné		

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

Code of the group: 12BV*6P Name of the group: 15 2012 BVES 6.sem povinné Requirement credits in the group: In this group you have to gain 9 credits Requirement courses in the group: In this group you have to complete 2 courses Credits in the group: 9 Note on the group:

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

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

 2331071
 Automation of Production Processes
 Z,ZK
 5

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

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:

Code of the group: 12DVK1P-KMEN

Name of the group: 00 2012 D kmenové 1. semestr VES kombinované

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0 Note on the group:

12B**1P-KMEN #

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	Ρ	
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р	
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Ρ	
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р	
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р	

Characteristics of the courses of this group of Study Plan: Code=12DVK1P-KMEN Name=00 2012 D kmenové 1. semestr VES kombinované

2182019	Chemistry		KZ	3
General chemistry fro	om the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and	properties of ma	atter, therm	odynamics,
phase equilibrium, ch	emical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) a	nd biochemistry.	Laboratory	practice is
oriented upon the mat	terial properties measurement.			
2011021	Constructive Geometry	Z	,ZK	6
The subject is focused	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.			
2011056	Mathematics I	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	d connections be	etween cond	cepts. Students
will also get to know th	ne procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some them	atic areas: eigen	numbers ar	nd eigenvectors
of a matrix, Taylor poly	ynomial, integral as a limit function, integration of some special functions.			
2372041	2372041 Computer Support for Study			
	s students into creating technical and professional documents on computers or Web and into realizing technical compu			
• • •	/ creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating t	echnical-based	WWW page	
K333038	Fundamentals of Technology I.		Z	3
Production processes	s in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cas	t iron technical i	metals Proc	duction of nig
	g: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. F	orming technolo	gy. Hot and	cold forging.
Free and drop forging	. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typ	orming technolo	gy. Hot and	cold forging.
Free and drop forging		orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi	. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting.	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi	. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typ	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi Code of the g	. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting.	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi Code of the g Name of the g	p. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc welding Code of the g Name of the Requirement	B. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované credits in the group:	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi Code of the g Name of the g Requirement Requirement	B. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované credits in the group: courses in the group:	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi Code of the g Name of the Requirement Requirement Credits in the	B. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. Group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované credits in the group: courses in the group: e group: 0	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc weldi Code of the g Name of the g Requirement Requirement	P. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované credits in the group: courses in the group: e group: 0 non-region 12B**2P-KMEN #	orming technolo	gy. Hot and	cold forging.
Free and drop forging welding and arc welding Code of the g Name of the g Requirement Requirement Credits in the Note on the g	p. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované credits in the group: courses in the group: e group: 0 group: 12B**2P-KMEN #	orming technolo es of welding. Fr	gy. Hot and usion weldir	cold forging. ng: Flame
Free and drop forging welding and arc weldi Code of the g Name of the Requirement Requirement Credits in the	P. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various typing with coated electrodes. Thermal cutting. group: 12DVK2P-KMEN group: 00 2012 D kmenové 2. semestr VES kombinované credits in the group: courses in the group: e group: 0 non-region 12B**2P-KMEN #	orming technolo es of welding. Fr	gy. Hot and usion weldir	cold forging. ng: Flame

2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr, František Lopot, Roman Uhlí Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р

Characteristics of the courses of this group of Study Plan: Code=12DVK2P-KMEN Name=00 2012 D kmenové 2. semestr VES kombinované

2021041	Physics I.	Z,ZK	7				
Kinematics and dynami	cs 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, semico	nductors,				
insulators. Magnetic fiel	nsulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression,						
measurements of 11 various experiments related to the lectures.							
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. Differential operators div (divergence)							
and curl (rotation). Funct	ion given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integ	ral, Fubini theoren	n. Transformation				
of integrals to polar, cyli	ndrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gr	een'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 vec	ctor field through	a surface. The				
Gauss-Ostrogradskij the	sorem.						
2322029	Materials Science I.	KZ	3				
History and present sta	e of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, def	ormation, recrysta	allization and				
fracture of materials, str	ucture and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	on-carbon phase	diagram.				
2012037	Computer Graphics	KZ	3				
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, surfa	ace texture, geom	etrical tolerance,				
dimensional loops, toler	ancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	ir knowledge from	n lectures.				

Code of the group: 12DVK3P-KMEN Name of the group: 00 2012 D kmenové 3. semestr redukované pro VES kombinované Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: 12BV*3P-KMEN-R #

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=12DVK3P-KMEN Name=00 2012 D kmenové 3. semestr redukované pro VES kombinované

2021025	Physics II.	Z,ZK	4		
Faraday's law of electron	magnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of	electromagnetic w	aves. Interaction		
of radiation with matter.	Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom a	nd periodic syster	m of elements.		
Spectra, x-rays, ;laser. I	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments relate	d to the lectures.		
2011009	Mathematics III	Z,ZK	5		
An introductory course	in ordinary differential equation and infinite series.				
2321039	Materials Science II.	Z,ZK	4		
Fundamentals of metal	urgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	nd thermo-mecha	nical processing,		
technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.					
K331068	Technology I	Z,ZK	5		
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.					

Name of the block: Compulsory elective courses Minimal number of credits of the block: 9 The role of the block: PV

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 VES

2041061	English-Bachelor Exam	Z,ZK	2		
Mapped to the Commor	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,		
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.					
2041063	French - Bachelor Exam /FME	Z,ZK	2		
Mapped to the Commor	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,		
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.					
2041062	German - Bachelor Exam / FME	Z,ZK	2		
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,					
to write a summary, a r	eport 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 discussions,					
to write a summary, a r	eport 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 discussions,					
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.					

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

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

Requirement credits in the group: In this group you have to gain at least 5 credits (at most 10) Requirement courses in the group: In this group you have to complete at least 1 course (at most 2) Credits in the group: 5

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2321067	Technical Application of Materials Stanislav Krum	Z,ZK	5	3P+1C	*	PV

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

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

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

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

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 8) Requirement courses in the group: In this group you have to complete at least 1 course (at most 4) Credits in the group: 2

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jana Sobotová, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Ta ana Vacková, Jakub Horník, Ladislav Cvr ek, Elena ižmárová, Jana Sobotová Jana Sobotová (Gar.)	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 preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature						
with particular emphasi	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.	knowledge or results.					
2332091	Project	KZ	2			
2342091	Project	KZ	2			
Work on specialized tas	ks.	•	•			

Name of the block: Elective courses Minimal number of credits of the block: 0 The role of the block: V

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

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

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

202A041	Physics I.	ZK	3
Kinematics and dynan	nics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of boo	lies. Oscillations
waves. Fluid mechanie	es. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	onductors, semico	nductors,
insulators. Magnetic fi	eld. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and in	direct measureme	ents, regression,
measurements of 11 v	arious experiments related to the lectures.		
201A021	Constructive Geometry A	ZK	3
The subject is focused	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
201A056	Mathematics I.A	ZK	4
Introduction to linear a	lgebra, 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. Differentiability.	ential operators di	v (divergence)
and curl (rotation). Fun	ction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integ	ral, Fubini theorer	n. Transformatior
of integrals to polar, c	rlindrical 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 surface. The
Gauss-Ostrogradskij t	heorem.		

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

Name of the group: 05 2012 doporu ené seminá e

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Pokud si chce student své dosud získané znalosti (například z matematiky, fyziky, cizích jazyků atd.) doplnit, může si zapsat některý z volitelných předmětů, které příslušné ústavy pro 1. semestr (zimní) vypisují. Doporučujeme zejména předměty uvedené v této skupině

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2026016	Physics - Seminar	Z	2	0P+2C	1	V
2016007	Mathematics I Seminar Radka Keslerová, Hynek ezní ek, Olga Majlingová Radka Keslerová Gejza Dohnal (Gar.)	Z	2	0P+2C	1	V

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

2026016	Physics - Seminar	Z	2
The subject is mainly m			
2016007	Mathematics I Seminar	Z	2

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

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V

2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová, Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, 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	Z	2	0P+2C	Z	v
2046127	Jaroslava Kommová Czech - Upper Intermediate	Z	2	0P+2C	Z	v
2046128	Jaroslava Kommová Czech - Upper Intermediate	Z	2	0P+2C	L	v
2046119	Jaroslava Kommová Czech Language for Beginners I.	 Z	2	0P+2C	Z	v
	Jaroslava Kommová Czech Language for Beginners II.	Z	2	0P+2C		
2046120	Jaroslava Kommová French - Lower Intermediate Course	Z	2	UP+2C	L	V
2046086	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 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 communic	ative skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communic	ative skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
Mapped to the Comr	non European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets	either at school
or at his/her free time	and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professiona	l language.
2046070	English - Lower Intermediate	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 the	em. Writing in a sir	nple way about
familiar topics. Readi	ng and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehen	sion 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	a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	eld of studies witho	ut difficulties.
Grammar structures	on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Comr	non European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	English without gre	eat difficulties
and active participati	on 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 t	exts 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 – 1	_			
-	life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	0				
	English - Upper Intermediate	Z	2			
	European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	1 – 1				
	ision of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	-				
knowledge.						
2046068	English - Beginners	7	2			
	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	_			
	English - Beginners	7	2			
	European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan		_			
	ninology (professional language).					
-	Czech Lower Intermediate	Z	2			
	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	1 – 1				
-	and comprehension of simple texts. Improvement of professional language.	, in this is a car	inplo indy about			
	Czech Lower Intermediate	Z	2			
	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	1 – 1	_			
-	and comprehension of simple texts. Improvement of professional language.	, in this is a car	inplo indy about			
2046118	Czech -Advanced	Z	2			
	common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C		_			
	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen					
	s from student's field of studies without difficulties. Grammar structures on advanced level.					
	Czech -Advanced	7	2			
	en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	1 – 1	_			
	rrite an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	-	essing opinions.			
		Z	2			
	Czech - Upper Intermediate	1 – 1	_			
-	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili e's opinions and plans. Reading and understanding general and technical texts.	ity to describe exp	enences and			
		7				
	Czech - Upper Intermediate	Z	2			
	European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional					
knowledge technical lan	ision of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter	mediale level. Dio	adening the			
-		7				
	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					
	Czech Language for Beginners II.	Z	2			
	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			
-	inology (professional language).					
	French - Lower Intermediate Course	Z	2			
	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			
	nprehension of simple texts. Improvement of professional language.					
	French - Lower Intermediate Course	Z	2			
	common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which					
	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	1 1				
2046091	French - Advanced	Z	2			
	common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to					
	ive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ar	nd understanding f	texts concerning			
	lar scientific and technical articles.					
2046090	French - Advanced	Z	2			
Comprehension of spoke	en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio	on in discussions. E	Expressing			
	bility to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	echnical articles.				
2046089	French - Upper Intermediate	Z	2			
Mapped to the level of C	common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students o	omes across at wo	ork, at school,			
during free time, and tall	king about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa	anding general and	d technical texts.			
2046088	French - Upper Intermediate	Z	2			
Understanding standard	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ity to describe exp	eriences and			
events, briefly explain or	e's opinions and plans. Reading and understanding general and technical texts.					
2046084	French - Beginners	Z	2			
Understanding clearly w	hat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	riting in a simple w	ay about familiar			
topics. Reading and corr	nprehension of simple texts. Improvement of professional language.					
2046085	French - Beginners' Course	Z	2			
	common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	1 1				
	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement (
	Indonesian Language Course for Exchange	Z	2			
	guage for Student Exchange Program to Indonesia		-			
2146061	Technical Indonesian - Course I.	Z	2			
	an Language for Student Exchange Program to Indonesia		-			
		774	3			
2144062	Technical Indonesian - Course II. guage for Student Exchange Program to Indonesia	Z,ZK	ى ا			
		7				
	German - Lower Intermediate Course	Z 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	an. writing in a sin	nple way about			
iaminal topics. Reading	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	h a student meets	s either at school
or in his/her free time a	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme	nt of professional	language.
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 ir	German without	great difficulties
and active participation	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre	ehension of popul	ar-scientific and
scientific articles or tex	ts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046082	German - Advanced Course	Z	2
	ken language as well as lectures in German 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		
2046081	German - Upper Intermediate Course	Z	2
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c		
	alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa	anding general and	
2046080	German - Upper Intermediate Course	<u> </u>	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 exp	eriences and
	bne's opinions and plans. Reading and understanding general and technical texts.	7	2
2046076	German - Beginners	. –	2
2046077	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes		2
	German - Beginners		
	ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language).	and use of basic	expressions of
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.	<u> </u>	2
2046166		Z	2
	Presentations in Czech give presentations in English on technical topics, with a possible co-operation with specialized departments.		
2046162		Z	2
	Presentations in German ting technical topics in German, possibly in cooperation with specialized departments.	<u> </u>	2
2046164		Z	2
	Presentations in Russian ting technical topics of the specialized departments.		2
		7	2
2046163	Presentations in French language ting technical topics in French, possibly in cooperation with specialized departments.	Z	2
2046165		Z	2
	Presentations in Spanish ting technical topics in Spanish, possibly in cooperation with specialized departments.	<u> </u>	2
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. Wr	-	_
	mprehension of simple texts. Improvement of professional language.	ang in a simple w	ay about laminar
2046138	Russian - Lower Intermediate Course	7	2
	Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stu	. –	
	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
2046141	Russian - Advanced	7	2
	ken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participati	on in discussions	
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.	
2046142	Russian - Advanced	Z	2
	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on t	ں opics familiar to th	
Communication with na	ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an	nd understanding	texts 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 r	neets at work, at s	school, 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	d technical texts.
2046139	Russian - Upper Intermediate	Z	2
Understanding standar	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe exp	eriences and
events, briefly explain o	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	ng and use of bas	sic expressions
-	minology (professional language)		
2046135	Russian - Beginners	Z	2
	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes		
2046099	Spanish - Lower Intermediate	Z	2
	Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stu		nool or in his/her
	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
2046098	Spanish - Lower Intermediate	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	iting in a simple w	ay about familiar
	mprehension of simple texts. Improvement of professional language.	-	
2046096	Spanish - Beginners	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	m. vvriting in a sin	npie way about
	g and comprehension of simple texts. Improvement of professional language.	-	
2046097 Mapped to the Commo	Spanish - Beginners	Z Student meets at	2 school or in
	on European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement (
manner nee unie and s	реальну авеах алент, читалу на энтрре way about raminar topics, reading and comprehension of simple texts, improvement	or professional fal	iyuaye.

List of courses of this pass:

2011009 An indicator sum in ordinging differential equation and infinite series. Z.Z.K 5 2011021 The subject is boased on geometric clopic in the secan - cancers. sutnose and cloids and their properties and mutual instance. Z.Z.K 6 2011026 Mathematics II An indicator in the secan - cancer cloids and their properties and connectific subsecance. Z.Z.K 8 2011026 Mathematics II An indicator in the accomment equation in the secan - cancer cloids and acre their strain of the secan - cancer cloids accomments. Z.Z.K 8 2011026 Constructive Geometry Z.Z.K 8 7 Quart accomment in the properties of the cancer strain accomment in the properties of the cancer strain accomment accomme	2011000	Name of the course	Completion	Credits
2011021 Constructive Geometry Z.K 6 2011026 Mathematics 1 Z.K 8 10 he course, greater and holds and their properties and mutual helitoms in the course, surfaces and suites and their properties and mutual helitoms with a searched knowledge is none thematic sets operation composits. Subject as its busines, taidents with gas extended knowledge is none thematic sets operations. 2.7.K 8 2011026 Mathematics 1 Z.ZK 8 2011027 Matematika 11. Z.ZK 8 2011028 Matematika 11. C.ZK 8 2011029 Computer stratege and weeter helicitoms of the image of a scalar function and a vector function. 2.7.ZK 8 2011020 Computer Graphics KZ 3 20110207 Computer Graphics KZ 3 20110207 Computer Graphics KZ 3 20110207 Constructive Geometry A Z 2 20110207 Constructive Geometry A Z 2 20110205 Mathematics 1. Mathematics 1. ZK 4 20110261 Descalar dingeradia divers and dingera divers and divers and mutu	2011009		Z,ZK	5
2011056 Image: state of the excert state state of the correct state state of the excert state state state of the excert state state and the excert state state state of the excert state state and the excert state state state of the excert state st	2011021	Constructive Geometry		6
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2046070			
Aim: Understanding	English - Lower Intermediate clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z Writing in a simple	2 e way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046071	English - Lower Intermediate	Z	2
	mon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a sime and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improveme		
2046072	English - Upper Intermediate	7	2
	English - Opper Internediate language skills taking into consideration professional English and common professional terminology. Comprehension of standard En	. –	1
	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -		Sonversation
2046073	English - Upper Intermediate	Z	2
1	nmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli		1
terminology. Compre	hension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedi	ate level. Broadeni	ing grammaı
	knowledge.		
2046074	English - Advanced	Z	2
-	ension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written		
level. Ability to writ	e a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without	difficulties.
2040075	Grammar structures on advanced level. B1 - B2.	7	<u> </u>
2046075	English - Advanced	Z	difficultion
	nmon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in En- tion 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.		
2046076	German - Beginners	7	2
	ulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	
2046077	German - Beginners	Z	2
	Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an	-	
	general scientific terminology (professional language).		
2046078	German - Lower Intermediate Course	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	e way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
	of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a		
	time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement		1
2046080	German - Upper Intermediate Course	Z	2
Understanding sta	ndard 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 experi	ences and
2046081	German - Upper Intermediate Course	Z	2
1	of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	_	1
	I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi		
2046082	German - Advanced Course	Z	2
Comprehension o	spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participatio	n in discussions. E	xpressing
	ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical artic	es.
2046083	German - Advanced Course	Z	2
	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge	-	
and active participa	ion in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe	nsion of popular-s	cientific and
0040004	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	-	-
2046084	French - Beginners	Z	2
Understanding clear	ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	i in a simple way a	Dout lamiliar
2046085	French - Beginners' Course	Z	2
	of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a	_	
	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046086	French - Lower Intermediate Course	Z	2
1	ly 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	
Understanding clear	topics. Reading and comprehension of simple taxts. Improvement of professional language		
Understanding clear	topics. Reading and comprehension of simple texts. Improvement of professional language.		-
Understanding clear	French - Lower Intermediate Course	Z	2
2046087			
2046087 Mapped to the leve	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	student meets at s	school or in nguage.
2046087 Mapped to the leve his/her free time 2046088	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate	student meets at s of professional lar Z	school or in nguage.
2046087 Mapped to the leve his/her free time 2046088	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	student meets at s of professional lar Z	school or in nguage.
2046087 Mapped to the leve his/her free time 2046088 Understanding sta	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate ndard 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.	student meets at s of professional lar Z to describe experi	school or in nguage. 2 iences and
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate ndard 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. French - Upper Intermediate French - Upper Intermediate	student meets at s of professional lar Z to describe experi	school or in nguage. 2 iences and 2
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate ndard 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. French - Upper Intermediate Of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students corr	student meets at s of professional lar Z to describe experi Z nes across at work	ischool or in nguage. 2 iences and 2 ., at school,
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve during free time, and	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate ndard 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. French - Upper Intermediate I of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding	student meets at s of professional lar Z to describe experi Z nes across at work ng general and tec	chool or in nguage. 2 iences and 2 , at school, chnical texts.
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve during free time, and 2046090	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate Indard 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. French - Upper Intermediate I of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students corr I of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced	student meets at s of professional lar Z to describe experi E ses across at work og general and teo Z	school or in nguage. 2 iences and 2 , at school, chnical texts. 2
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve during free time, and 2046090 Comprehension of	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate Indard 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. French - Upper Intermediate I of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding free topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding free topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced f spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	student meets at s of professional lar Z to describe experi S nes across at work ng general and tec Z n in discussions. E	school or in nguage. 2 iences and 2 , at school, chnical texts. 2 xpressing
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve during free time, and 2046090 Comprehension o opinions. V	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate Indard 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. French - Upper Intermediate I of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding I talking about these topics ability to describe experiences and events, explain one's opinions and plans. Reading and understanding I talking about these topics ability to describe experiences and events, explain one's opinions and plans. Reading and understanding I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding I talking about these topics in French on topics familiar to the student. Communication with native speakers, participation ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and the student. Some and pl	student meets at s of professional lar Z to describe experi es across at work ng general and tec Z in discussions. E and technical articl	school or in nguage. 2 iences and 2 , at school, chnical texts. 2 xpressing les.
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve during free time, and 2046090 Comprehension of opinions. W 2046091	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate Indard 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. French - Upper Intermediate I of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding free topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding free topics, that a students corr I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced f spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	student meets at s of professional lar Z to describe experi Z nes across at work ng general and tec Z in discussions. E and technical articl Z	school or in nguage. 2 iences and 2 , at school, chnical texts. 2 xpressing les. 2
2046087 Mapped to the leve his/her free time 2046088 Understanding sta 2046089 Mapped to the leve during free time, and 2046090 Comprehension of opinions. W 2046091 Mapped to the leve	French - Lower Intermediate Course I of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Upper Intermediate Indard 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. French - Upper Intermediate I of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com I talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced f spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatior ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a French - Advanced	student meets at s of professional lar Z to describe experi Z nes across at work ng general and tec Z in discussions. E and technical articl Z pics familiar to the	school or in nguage. 2 iences and 2 , at school, schnical texts. 2 xpressing es. 2 student.

2046096		_	-
	Spanish - Beginners ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V	Z Vriting in a simpl	2 le way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
	Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a st		
	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of		
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 topics. Reading and comprehension of simple texts. Improvement of professional language.	in a simple way a	about familiar
2046099	Spanish - Lower Intermediate	Z	2
	el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a student		
	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of pr		
2046117	Czech -Advanced	7	2
	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc	ussions. Express	1
Writt	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
Mapped to the leve	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech	n without great d	lifficulties and
active participat	ion in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension	on of popular-sci	ientific 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 (pro	oressional langu	
2046120	Czech Language for Beginners II.		2
iapped to the Cor	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic	c expressions
2046125	of general scientific terminology (professional language).	7	2
	Czech Lower Intermediate	—	-
Am: Understandi	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	whiting in a simp	ie way about
2046126	Czech Lower Intermediate	7	2
	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	—	1
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		ie way about
2046127	Czech - Upper Intermediate	7	2
	tandard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability t	—	1
5	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	·	
2046128	Czech - Upper Intermediate	Z	2
Apped to the Co	mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cze	ch and common	nrofessional
			professional
	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interme		-
	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interme knowledge technical language.	ediate level. Broa	adening the
terminology. Cor 2046135	knowledge technical language. Russian - Beginners	ediate level. Broa	adening the
terminology. Cor 2046135 Basic voc	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pre-	ediate level. Broa Z ofessional langu	adening the 2
terminology. Cor 2046135 Basic voc 2046136	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pre Russian - Beginners	ediate level. Broa Z ofessional langu Z	adening the 2 age) 2
terminology. Cor 2046135 Basic voc 2046136	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pression - Beginners Russian - Beginners vel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a	ediate level. Broa Z ofessional langu Z	adening the 2 lage) 2
terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language)	Ediate level. Broa Z ofessional langu Z and use of basic	adening the 2 lage) 2 expressions
terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course	ediate level. Broa Z ofessional langu Z and use of basic Z	adening the 2 lage) 2 expressions 2
terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	ediate level. Broa Z ofessional langu Z and use of basic Z	adening the 2 lage) 2 expressions
terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137 Inderstanding cle	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course arly 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.	Z ofessional langu Z and use of basic Z in a simple way a	adening the 2 lage) 2 expressions 2 about familia
terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137 Inderstanding clea	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course arly 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. Russian - Lower Intermediate Course	ediate level. Broa	adening the 2 age) 2 expressions 2 about familia 2
terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137 Inderstanding clea 2046138 Iapped to the leve	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (progradulty of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (progradulty of everyday life in a spoken and written form. Understanding at of general scientific terminology (professional language) rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding at of general scientific terminology (professional language) Russian - Lower Intermediate Course arly 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. Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student	Z ofessional langu Z and use of basic Z in a simple way a Z t meets at schoo	adening the 2 age) 2 expressions 2 about familia 2 of or in his/he
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terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137 Inderstanding cles 2046138 lapped to the leve free time a 2046139	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course arly 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. Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	ediate level. Broa Z ofessional langu Z and use of basic Z in a simple way a z t meets at schoo rofessional langu Z	adening the 2 lage) 2 expressions 2 about familia 2 ol or in his/he uage. 2
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terminology. Cor 2046135 Basic voc 2046136 Mapped to the lev 2046137 Inderstanding cles 2046138 Iapped to the leve free time a 2046139 Understanding st 2046140	knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding at of general scientific terminology (professional language) Russian - Lower Intermediate Course arly 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. Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of simple texts. Improvement of professional language. Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional familiar topics. Reading and comprehension of simple texts. Improvement of professional speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional speaking about thems. Simple text	z ofessional langu Z and use of basic Z in a simple way a z t meets at schoo rofessional langu Z o describe expe Z	adening the 2 age) 2 expressions 2 about familia 2 ol or in his/he uage. 2 riences and 2
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2046163	Presentations in French language Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	Z	2		
2046164	Presentations in Russian	Z	2		
2040104			2		
0040405	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	7	0		
2046165	Presentations in Spanish Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	Z	2		
2046166	Presentations in Czech	Z	2		
2040100	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department		2		
2131002	Engineering Design II	Z,ZK	4		
	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface				
-	ps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	-			
		-			
2141204	Introduction to Electrical Engineering for Technology ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, t	Z,ZK	4		
	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines		•		
Analogue anu	DC-machines	s. Synchronous ma	crimes.		
2144062	Technical Indonesian - Course II.	Z,ZK	3		
2144002	Basic of Indonesian Language for Student Exchange Program to Indonesia	Ζ,ΖΝ	3		
24 40000		7	0		
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		
	Second part of Indonesian Language for Student Exchange Program to Indonesia				
2182019	Chemistry	KZ	3		
	y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties				
phase equilibriun	n, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biocher	mistry. Laboratory	practice is		
	oriented upon the material properties measurement.				
2321039	Materials Science II.	Z,ZK	4		
Fundamentals of m	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and th	nermo-mechanical	processing,		
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi				
2321067	Technical Application of Materials	Z,ZK	5		
P edm t popisuje a	splikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým treno	d m t chto skupin.	The subject		
descri	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.			
2322029	Materials Science I.	KZ	3		
History and prese	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrystalliz	zation and		
fracture of mate	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	on-carbon phase of	liagram.		
2322091	Project	KZ	2		
On the basis of the	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	valuating the studi	ed literature		
with particular e	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	r evaluate hitherto	obtained		
	knowledge or results.				
2331071	Automation of Production Processes	Z,ZK	5		
Automation of basi	e technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizat	ion and automation	n in iron and		
steel foundries. A	utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De	esigning and progr	amming of		
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.				
2332091	Project	KZ	2		
2342005	Quality Control	KZ	2		
	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statist	ical process contro	l, statistical		
san	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ontrol systems.			
2342091	Project	KZ	2		
	Work on specialized tasks.				
2372041	Computer Support for Study	KZ	3		
	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t	1	rs. Students		
gain practica	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni	ical-based WWW p	age.		
2383001	Fundamentals of Law	Z	2		
	hegal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	-			
	purces of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n		-		
	ins, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.				
leads students to k	now some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation	ships and to make	them ready		
	to prepare professional presentations and to understand basic structures between law and engineering				
K331068	Technology I	Z,ZK	5		
	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form				
	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatmen		•		
K333038	Fundamentals of Technology I.	Z	3		
	ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techn	1	-		
	sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech				
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 2025-06-13, time 09:16.