Study plan

Name of study plan: 16 80 85 00 BVES TVA 2012 P základ

Faculty/Institute/Others: Department: Branch of study guaranteed Garantor of the study branc Program of study: Welcome Type of study: unknown full- Required credits: 182 Elective courses credits: -1 Sum of credits in the plan: 1 Note on the plan: první poke	page time 81
Name of the block: Compute Minimal number of credits of The role of the block: P	sory courses in the program f the block: 171
Code of the group: 12B*P*F Name of the group: 04 2012 Requirement credits in the g	

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

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

2333038Fundamentals 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: Flame welding and arc welding with coated electrodes. Thermal cutting.

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

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna, Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Ρ
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Ρ
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	Ρ
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr, František Lopot, Roman Uhlí Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
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oriented upon the material 2021041 PI Kinematics and dynamics of waves. Fluid mechanics. Te insulators. Magnetic field. M measurements of 11 variou 2011021 C The subject is focused on or 2011056 M In the course, greater emptivil also get to know the proof a matrix, Taylor polynom 2011062 M Open and closed set, boun and curl (rotation). Function of integrals to polar, cylindr field, independence of a lin Gauss-Ostrogradskij theore 2322029 M History and present state o fracture of materials, struct 2012037 C 2372041 C The course introduces stud gain practical skills by creat 2131002 E	properties measurement. Physics I. of a particle motion. Principle of conservation of energy. System of particles, centre of ma emperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, cu Magnetic materials. Laboratories - accuracy of measurements, systematic and random e us experiments related to the lectures. Constructive Geometry geometric objects in the space - curves, surfaces and solids and their properties and mu Mathematics I hasis is placed on the theoretical basis of the concepts discussed and on the derivation becdures for solving problems with parametric input. In addition, students will gain extended nial, integral as a limit function, integration of some special functions. Matematika II. hardry in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient in given implicitly. Local and global (= absolute) extremes of a function of more variables. Do rical and spherical coordinates. A simple smooth curve and line integral of a scalar and va- te integral on the path. Simple smooth surface and surface integral of a scalar function a em. Materials Science I. of materials engineering, overview of technical materials, internal structure of metals, cry ture and properties of materials and their testing, fundamentals of thermodynamics, pha Computer Graphics Computer Support for Study dents into creating technical and professional documents on computers or Web and into r	ass. Rigid body. Co irrent, conductivity irrors, uncertainty itual relations. of basic relations d knowledge in sor t and directional of uble integral, volur vector function. Ci ind a vector function. Ci ind a vector function vstal lattices and t ses and phase tra ealizing technical loulator, and by cr	mers) and b pontinuum, el y, resistance of direct an hips and com ne thematic lerivative. Di me (=triple) i rculation an on. Flow of a heir defects ansformation computation eating techr	iochemistry	Laboratory pr ,ZK ties of bodies. 4 rs, semiconduce easurements, Z,ZK 2,ZK 2,ZK	actice is 7 Oscillation tors, regression 6 8 ts. Studen eigenvecto 8 vergence) nsformatic ntial vecto face. The 3 tion and ram. 3 3 rs. Studen 4

Code of the group: 12BVP3P

Name of the group: 08 2012 BVES 3.sem prezen ní povinné Requirement credits in the group: In this group you have to gain 31 credits Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 31

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р

2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	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
2331068	Technology I.	Z,ZK	5	2P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVP3P Name=08 2012 BVES 3.sem prezen ní povinné

2021025	Physics II.	Z,ZK	4						
Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction									
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 al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.								
2331068	Technology I.	Z,ZK	5						
Foundry properties of m	etals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of I	forming processes	Semi-products,						
heating-up. Cutting. Col	d and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatments.								

Code of the group: 12BVP4P

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

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2342005	Quality Control	KZ	2	1P+1C+1L	*	Р
2341014	Technology II.	Z,ZK	5	2P+0C+2L	*	Ρ

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

2342005	Quality Control	KZ	2						
Basic quality control ter	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.							
2341014	Technology II.	Z,ZK	5						
mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes,									
programming of manufa	cture. Engineering metrology. Assembly techniques. Introduction to process planing.								

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:

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

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 circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers.

 Analogue 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

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

7

2

Code of the group: 12BV*5P-TVA Name of the group: 14 2012 BVES 5.sem zam TVA povinné Requirement credits in the group: In this group you have to gain 17 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 17 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
2332038	Surface Treatment Technology	KZ	4	1P+2C	*	Р
2331505	Welding Technology	Z,ZK	4	2P+1C	*	Р
2322041	Heat treatment Jana Sobotová, Martin Ku ík Jana Sobotová Jana Sobotová (Gar.)	KZ	4	2P+1C	*	Ρ

Characteristics of the courses of this group of Study Plan: Code=12BV*5P-TVA Name=14 2012 BVES 5.sem zam TVA povinné

2332038	Surface Treatment Technology	KZ	4					
TPU The course is an in	TPU The course is an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution and its species. TPU focuses							
on corrosion protection i	n engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discu	ssed technologies	s finishes include					
coating technologies (su	ch as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is als	o ecological aspec	ts, Technological					
design and testing in the	e field of surface treatment.							
2331505	Welding Technology	Z,ZK	4					
2322041	Heat treatment	KZ	4					
Theoretical fundamenta	Theoretical fundamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion focused on the given topic							

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:

	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 welding centers. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers.

Code of the group: 12BVP6P-TVA

Name of the group: 16 2012 BVES 6.sem zam TVA prez 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
2333993	Bachelor Thesis	Z	5	0P+6C	*	Р
2332056	Preparations and Tools	KZ	3	0P+3C	*	Р
2331065	Design Consideration	Z,ZK	5	3P+1C	*	Р

 2331506
 Casting and Forming Technology
 Z,ZK
 5
 3P+2C
 *
 P

Characteristics of the courses of this group of Study Plan: Code=12BVP6P-TVA Name=16 2012 BVES 6.sem zam TVA prez povinné							
2333993	Bachelor Thesis	Z	5				
2332056	Preparations and Tools	KZ	3				
Principles of selection of	f the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Produc	tion processes fo	r forgings.				
Accuracy, stock materia	I, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production pro	cesses for weldme	ents. Operational				
sequence, filler materia	ls, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping.						
2331065	Design Consideration	Z,ZK	5				
Relations between desi	gn, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembl	y techniques. Bas	sis for material				
and production technology	ogy selection. Component detailing for manufacture. CNC basis and using CNC.						
2331506	Casting and Forming Technology	Z,ZK	5				
Principles of selection o	the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Productio	n processes for fo	rgings,extrusion.				
Accuracy, stock materia	II, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic moul	ldings. Individual p	projects for				
production of a casting,	forging or a stamping.						

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

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

Name of the group: 03 2012 bakalá ské povinn volitelné humanitární Requirement credits in the group: In this group you have to gain at least 2 credits (at most 6) Requirement courses in the group: In this group you have to complete at least 1 course (at most 3) Credits in the group: 2

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

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

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

 2383009
 Communication and Dealing with People
 Z
 2

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

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 Common	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 re	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 diff	iculties, to take pa	rt in discussions,				
to write a summary, a re	port 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 diff	iculties, to take pa	rt in discussions,				
to write a summary, a re	port 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 diff	iculties, to take pa	rt in discussions,				
to write a summary, a re	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 diff	iculties, to take pa	rt in discussions,				
to write a summary, a re	port 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**

7 7K 5 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.

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 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.		•			

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

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

Credits in the group: 0 Note on the group:

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

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

202A041 Physics I.

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

201A021	Constructive Geometry A	ZK	3			
The subject is focused	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	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable					
201A062	Mathematics II.A	ZK	4			
Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence)						

and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, Fubini theorem. Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

Code of the group: 12B**1V-DOP SEMI Name of the group: 05 2012 doporu ené seminá e Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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

3

ΖK

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	The subject is mainly meant for high-school students for repetition of high-school physics.				
2016007	Mathematics I Seminar	Z	2		

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

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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

2046156	English Conversation	Z	2	0P+2C	L	v
2040130	Ilona Šimice, Michele Le Blanc				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	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	Z	2	0P+2C	Z	v
2046118	Jaroslava Kommová Czech -Advanced	Z	2	0P+2C	L	v
	Jaroslava Kommová Czech -Advanced					-
2046117	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 Vitková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana 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 communicat	ive skills in speaking on general topics and general technical topics.	1	I
2046156	English Conversation	Z	2
Improving communicat	ive skills in speaking on general topics and general technical topics.	•	<u> </u>
2046071	English - Lower Intermediate	Z	2
Mapped to the Commo	n 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 a	and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professiona	al language.
2046070	English - 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	em. Writing in a sir	nple way about
familiar topics. Reading	g and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehension	on 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	summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	eld of studies with	out difficulties.
Grammar structures or	n advanced level. B1 - B2.		

2046075	English - Advanced	7	2
	English - Auvanceu n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in I	<u> </u>	_
		0	
	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and compre	enerision of popula	r-scientific and
	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 standar	d English speech a	and conversation
about topics of everyda	y 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	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Er	nglish 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 intern	nediate level. Broa	dening grammar
knowledge.			
2046068	English - Beginners	Z	2
	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (r	1 – 1	_
2046069		Z	2
	English - Beginners	1 – 1	_
	h European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar	nding and use of ba	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	em. Writing in a sin	nple way about
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language.		
2046125	Czech Lower Intermediate	Z	2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	1 – 1	_
• •	and comprehension of simple texts. Improvement of professional language.		ipie naj abeut
		7	0
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in (-	
	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compreher	nsion of popular-sc	entific 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 ir	discussions. Expr	essing opinions.
Written skills. Ability to	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	articles.	
2046127	Czech - Upper Intermediate	7	2
	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abil	· – ·	_
-	ne's opinions and plans. Reading and understanding general and technical texts.		cherices and
			0
2046128	Czech - Upper Intermediate	Z	2
Mapped to the Commo	n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professiona	I Czech and comm	non professional
terminology. Comprehe	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter	rmediate level. Bro	adening the
knowledge technical la	nguage.		
2046119		Z	2
	Czech Language for Beginners I.	. – .	2
Basic vocabulary of eve	Czech Language for Beginners I. Aryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestional scientific terminology)	ssional language)	
Basic vocabulary of eve 2046120	Czech Language for Beginners I. sryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestional Czech Language for Beginners II.	ssional language)	2
Basic vocabulary of eve 2046120 Mapped to the Commo	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar	ssional language)	2
Basic vocabulary of eve 2046120 Mapped to the Commo of general scientific term	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar ninology (professional language).	ssional language)	2 asic expressions
Basic vocabulary of eve 2046120 Mapped to the Commo	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar	ssional language)	2
Basic vocabulary of eve 2046120 Mapped to the Commo of general scientific terr 2046086	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar ninology (professional language).	Asional language)	2 asic expressions 2
Basic vocabulary of eve 2046120 Mapped to the Commo of general scientific terr 2046086 Understanding clearly of	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar ninology (professional language). French - Lower Intermediate Course	Asional language)	2 asic expressions 2
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific terr 2046086 Understanding clearly w topics. Reading and com	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar ninology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written nprehension of simple texts. Improvement of professional language.	ssional language) Z ading and use of ba Z riting in a simple w	2 asic expressions 2 ay about familiar
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific terr 2046086 Understanding clearly v topics. Reading and con 2046087	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar ninology (professional language). French - Lower Intermediate Course 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. French - Lower Intermediate Course	Ading and use of ba	2 asic expressions 2 ay about familiar 2
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific term 2046086 Understanding clearly v topics. Reading and con 2046087 Mapped to the level of the	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written and speaking about them and speaking about them. Written and speaking about them and speaking about them. Written and speaking about them. Written and speaking about them and speaking about them. Written and speaking about the speakin	Ading and use of backgroups of the second language) Z Image: Second language Image: Second language Z Image: Second language Image: Second language	2 asic expressions 2 ay about familiar 2 at school or in
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific terr 2046086 Understanding clearly v topics. Reading and co 2046087 Mapped to the level of this/her free time and sp	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan ninology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written prehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	ssional language) Z ding and use of ba Z ding and use of ba Z ding in a simple w C ding a student meets a of professional lan	2 asic expressions 2 ay about familiar 2 at school or in iguage.
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific terr 2046086 Understanding clearly v topics. Reading and con 2046087 Mapped to the level of this/her free time and sp 2046091	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar ninology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written proteension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Advanced	ssional language) Z ding and use of ba Z ding and use of ba Z ding a simple w Z ding a student meets a of professional lan Z Z	2 asic expressions 2 ay about familiar 2 at school or in guage. 2
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific term 2046086 Understanding clearly v topics. Reading and con 2046087 Mapped to the level of 0 his/her free time and sp 2046091 Mapped to the level of 0	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written prehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to the professional comprehension of spoken language as well as lectures in French on the common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on the common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on the common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on the common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on the common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Fr	Ading and use of backgroups familiar to the backgroups familiar to t	2 asic expressions 2 ay about familiar 2 at school or in iguage. 2 e student.
Basic vocabulary of eve 2046120 Mapped to the Common of general scientific term 2046086 Understanding clearly w topics. Reading and con 2046087 Mapped to the level of this/her free time and sp 2046091 Mapped to the level of the Communication with name	Czech Language for Beginners I. ryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written prehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement 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 a	Ading and use of backgroups familiar to the backgroups familiar to t	2 asic expressions 2 ay about familiar 2 at school or in iguage. 2 e student.
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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 the	، em. Writing in a sir	nple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079 German - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which	ch a student meets	s either at school
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	ent of professional	language.
2046083 German - Advanced Course	Z	2
Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given i		-
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compr	ehension of popul	ar-scientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046082 German - Advanced Course	Z	2
Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participal		. Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		
2046081 German - Upper Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students of during free time, and tellving about those topics. Ability to depering and events available are available and events available availab		
during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst		
2046080 German - Upper Intermediate Course	L L	2
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abil events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	ity to describe exp	enences and
2046076 German - Beginners	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes		
		2
2046077 German - Beginners		
Mapped to the level Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding general scientific terminology (professional language).	and use of basic	expressions of
2046161 Presentations in English	Z	2
		2
Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.	7	2
2046166 Presentations in Czech	Z	2
Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments.	7	2
2046162 Presentations in German	Z	2
Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.	7	0
2046164 Presentations in Russian	Z	2
Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	7	0
2046163 Presentations in French language	Z	2
Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.		
2046165 Presentations in Spanish	Z	2
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	7	0
2046137 Russian - Lower Intermediate Course		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. W	lung in a simple w	ay about lamiliar
topics. Reading and comprehension of simple texts. Improvement of professional language.	Z	2
2046138 Russian - Lower Intermediate Course Mapped to the level of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a st		_
free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
2046141 Russian - Advanced	Z	2
Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participat	1	
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		. Expressing
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	1	
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a	•	
currant issues and popular scientific and technical articles.	a anaorotanang	ionio concornig
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	1	
free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understa		-
2046139 Russian - 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. Abil		
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046136 Russian - Beginners	Z	2
Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand	। ing and use of ba	
of general scientific terminology (professional language)		
2046135 Russian - Beginners	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	sional language)	1
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 stu	dent meets at sch	
free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	ssional 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. W	iting in a simple w	ay 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 the	m. Writing in a sin	nple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097 Spanish - Beginners	Z	2
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a		
his/ber free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lar	nunade

List of courses of this pass:

	Name of the course	Completion	Credits
2011009	Mathematics III An introductory course in ordinary differential equation and infinite series.	Z,ZK	5
2011021	Constructive Geometry The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	Z,ZK	6
2011056	Mathematics I	Z,ZK	8
1	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	·	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 of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	igennumbers and e	eigenvectors
2011062	Matematika II.	Z.ZK	8
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differenti	,	-
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 polar	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, independenc	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.	r field through a su	urface. The
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
1	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation		-
201A056	Mathematics I.A	ZK	4
I	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		I
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. Differenti	al operators div (d	livergence)
and curl (rotation). F	Function 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 polar	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, independenc	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.	r field through a su	urface. The
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 elec	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	poriodic system of	folomonte
		periodic system of	i elemento.
Spectra, x-rays, ;las	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expension		
Spectra, x-rays, ;las 2021041	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 exper Physics I.		
2021041 Kinematics and dyn	Physics I. namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro-	riments related to t Z,ZK operties of bodies.	the lectures 7 Oscillations
2021041 Kinematics and dyn waves. Fluid me	Physics I. 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	Z,ZK perties of bodies. nductors, semicon	the lectures 7 Oscillations ductors,
2021041 Kinematics and dyn waves. Fluid me	Physics I. 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 c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire	Z,ZK perties of bodies. nductors, semicon	the lectures 7 Oscillations ductors,
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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 es.
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, participation 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
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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	Preparation for presenting technical topics in Prench, possibly in cooperation with specialized departments.	Z	2
	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
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
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departm	1	-
2131002	Engineering Design II	Z,ZK	4
Principles of ISO GF	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	e texture, geometric	al tolerance
dimensional loop	is, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	-	lectures.
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
	cal circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machine		
	DC-machines		<u> </u>
2144062	Technical Indonesian - Course II.	Z,ZK	3
0440000	Basic of Indonesian Language for Student Exchange Program to Indonesia		
2146060	Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2146061	Technical Indonesian - Course I.	Z	2
	Second part of Indonesian Language for Student Exchange Program to Indonesia	I –	1 -
2182019	Chemistry	KZ	3
	r from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and propertie		-
phase equilibrium	, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laboratory	practice is
	oriented upon the material properties measurement.		
2321039	Materials Science II.	Z,ZK	4
Fundamentals of me	etallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and		l processing
0004007	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of mate		
2321067	Technical Application of Materials plikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trei	Z,ZK	5
	es applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	-	-
2322029	Materials Science I.	KZ	3
1	nt state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defe	1	-
	rials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations,		
2322041	Heat treatment	KZ	4
Theoretical fu	ndamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion f	ocused on the give	n topic
2322091	Project	KZ	2
On the basis of the p	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and	evaluating the stud	lied literatur
with particular en	nphasis 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.		
2331065	Design Consideration	Z,ZK	5
Relations between	design, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembly	techniques. Basis	for material
0004000	and production technology selection. Component detailing for manufacture. CNC basis and using CNC.	7.71/	
2331068	Technology I. of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of for		5
roundry properties t	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatment		ini-producta
2331071	Automation of Production Processes	Z,ZK	5
	technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechaniza		-
	tomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers.		
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		Ū
2331505	Welding Technology	Z,ZK	4
2331506	Casting and Forming Technology	Z,ZK	5
	on of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production p		gs,extrusior
Accuracy, stock n	naterial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic mou	ıldings. Individual p	rojects for
	production of a casting, forging or a stamping.		<u> </u>
2332038	Surface Treatment Technology	KZ	4
	an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution	-	
-	ion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discuss	-	
coating technologies	s (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also e	cological aspects, T	echnologica
2222050	design and testing in the field of surface treatment.	L/7	2
2332056	Preparations and Tools ection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Produ	KZ	3
	erial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production processes for stampings.		
	sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampings.		
2332091	Project	KZ	2
		Z	
2333038	Fundamentals of Technology I.		3
-	es in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, tech ting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming te		
	ging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of we		
	welding and arc welding with coated electrodes. Thermal cutting.	ang. r usion welu	

2333993	Bachelor Thesis	Z	5
2341014	Technology II.	Z,ZK	5
mechanics of chip f	ormation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining econor	nics. Automation o	f processes,
	programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.		
2342005	Quality Control	KZ	2
Basic quality control	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statisti	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.		1
2372041	Computer Support for Study	KZ	3
The course introdu	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t	he use of compute	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	cal-based WWW p	bage.
2383001	Fundamentals of Law	Z	2
Basic orientation ir	legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	e a view into the C	zech Legal
Order, particular so	purces of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is no	ecessary for stude	nts to know
our legal institutio	ns, 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 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		
2383009	Communication and Dealing with People	Z	2
Human communic	ation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modif	ications) to
	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.		

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-06-09, time 18:00.