Study plan

Name of study plan: 18 86 90 00 BVES MAT 2012 K základ

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Welcome page Type of study: unknown combined Required credits: 179 Elective courses credits: 0 Sum of credits in the plan: 179 Note on the plan: první pokus

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 168 The role of the block: P

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

Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna, Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Ρ
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Ρ
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	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	Ρ

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

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

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2011056 Mathematics I	Z,ZK	8						
In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. Students								
will also get to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvectors								
of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.								
2011062 Matematika II. Z,ZK 8								
Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different	tial operators div	v (divergence)						
and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral	I, Fubini theoren	n. Transformation						
of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree	en's theorem. A	potential vector						
field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	or field through	a surface. The						
Gauss-Ostrogradskij theorem.	-							
2322029 Materials Science I.	KZ	3						
History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrysta	allization and						
fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iron	n-carbon phase	diagram.						
2012037 Computer Graphics	KZ	3						
2372041 Computer Support for Study	KZ	3						
The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with	n the use of com	puters. Students						
gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.								
2131002 Engineering Design II	Z,ZK	4						
Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance,								
dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their	knowledge from	n lectures.						

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

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

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

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

Credits in the group: 6

Note on the group:

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

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

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

Code of the group: 12BVK3P

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

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

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

Credits in the group: 30

Note on the group:

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

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

2024025		7 71/					
2021025	Physics II.	Z,ZK	4				
Faraday's law of electro	Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. 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.	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 metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing,							
technical iron-carbon al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.						
K331068	Technology I	Z,ZK	5				
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,							
heating-up, Cutting, Cold and hot forming, Welds, Weldability, Weldment testing, Thermal cutting, Brasing, Surface treatment,							

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

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

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

2342005	Quality Control	KZ	2				
Basic quality control 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	sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.						
K341014	Z,ZK	5					

Code of the group: 12BV*5P

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

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

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

Credits in the group: 11

Note on the group:

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

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

2141204	Introduction to Electrical Engineering for Technology	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 cir	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	Z	2					
Basic orientation in lega	al system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to pro	ovide a view into t	he Czech Legal					
Order, particular source	es of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It	is necessary for s	tudents to know					
our legal institutions, the	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	eads 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	prepare professional presentations and to understand basic structures between law and engineering							

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

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

Code	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
2341001	Metrology	Z,ZK	5	2P+0C+2L	*	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	*	Р

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

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2341001	Metrology	Z,ZK	5			
Metrology, intergration into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondary standarts. Measuremen						
in 1, 2, end 3 coordina	es. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struc	ture - roughness,	wawiness.			
Measurement automat	isation.					
2331505	Welding Technology	Z,ZK	4			
2322041	Heat treatment	KZ	4			
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: 12BV*6P-MAT

Name of the group: 16 2012 BVES 6.sem zam MAT 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
2323993	Bachelor Thesis Jana Sobotová	Z	5	0P+6C	*	Ρ
2321501	Jana Sobotová	Z,ZK	4	3P+1C	*	Р
2321503	Technical testing of materials Elena ižmárová	Z,ZK	5	2P+2C+0L	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BV*6P-MAT Name=16 2012 BVES 6.sem zam MAT povinné

2323993	Bachelor Thesis	Z	5					
2321501		Z,ZK	4					
The course characterize	The course characterizes individual groups of new construction materials. In addition to the development and physical nature of these materials, the most commonly used types of							
recently developed mate	erials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability ar	nd methods of the	ir designations					
are also presented.								
2321503	Technical testing of materials	Z,ZK	5					
Term and definition of properties. Verification of properties in a certified quality management system. Accredited test laboratory and test systems, test standard. Basic mechanical								
properties and testing the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in accordance with the relevant								
standards. Test of resist	ance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defects in the	ne material.						

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	Л					
Name of the group: 03 2012 baka	alá ské povinn volitelné humanit	ární				
Requirement credits in the group:	: In this group you have to gain a	least 2 cre	dits (at	most 6	5)	
Requirement courses in the group	p: In this group you have to comp	lete at leas	t 1 cou	rse (at	most 3	3)
Credits in the group: 2						
Note on the group:	Ze skupiny humanitních pře	dmětů nutno _.	jeden	absolvo	vat	
Name of the course	e / Name of the group of courses					

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

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

 2383009
 Communication and Dealing with People
 Z
 2

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

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

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

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice (Gar.)	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Michaela Schusová, Hana Volejníková, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z,ZK	2	0P+2C	*	PV

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

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

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

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

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

Note on the group:

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

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

2321067 Technical Application of Materials

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.

Z,ZK

5

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

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

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

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jana Sobotová, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Ta ana Vacková, Jakub Horník, Ladislav Cvr ek, Elena ižmárová, Jana Sobotová Jana Sobotová (Gar.)	κz	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV
2342091	Project	KZ	2	0P+2C	*	PV

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

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

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:

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

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

202A041	Physics I.	ZK	3					
Kinematics and dynamic	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. Oscillation							
waves. Fluid mechanics	. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semicor	nductors,					
insulators. Magnetic fiel	d. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	direct measureme	nts, regression,					
measurements of 11 va	rious experiments related to the lectures.							
201A021	Constructive Geometry A	ZK	3					
The subject is focused of	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 alg	pebra, 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								

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 zeiména předměty uvedené v této skupině

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

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

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

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

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

note on the group						
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V

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2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	v
2046118	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	Z	V
2046127	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I. Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	V
2046085	French - Beginners´ Course Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
				00.00	Z	v
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	2	
2046080 2046076	Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela	Z Z	2	0P+2C 0P+2C	Z	V
	Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.) German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela					V
2046076	Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.) German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.) German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška	Z	2	0P+2C	Z	

2046162	Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Dušana Jirovská	Z	2	0P+2C	*	V
2046163	Presentations in French language Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	v
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	v
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	v

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

2046155 English Conversation	Z	2
Improving communicative skills in speaking on general topics and general technical topics.		
2046156 English Conversation	Z	2
Improving communicative skills in speaking on general topics and general technical topics.	·	
2046071 English - Lower Intermediate	Z	2
Mapped to the Common European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations	which a student meets	either at school
or at his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Im	provement of profession	al language.
2046070 English - Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking at	out them. Writing in a si	mple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074 English - Advanced	Z	2
The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion	on. Written and oral skills	on advanced
level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from stude	nt's field of studies with	out difficulties.
Grammar structures on advanced level. B1 - B2.		
2046075 English - Advanced	Z	2
Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures gi	• •	
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and or	comprehension of popula	ar-scientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072 English - Upper Intermediate	Z	2
The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of s	andard English speech	and conversation
about topics of everyday 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 Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration profession	onal English and commo	n professional
terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, or	intermediate level. Broa	adening grammar
knowledge.		
2046068 English - Beginners	Z	2
Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific termino	logy (professional langu	iage). A1
2046069 English - Beginners	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Un	derstanding and use of b	asic expressions
of general scientific terminology (professional language).		

2046126 Czech Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about t	1 1	_
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	0	. ,
2046125 Czech Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about t	1 – 1	_
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046118 Czech -Advanced	Z	2
Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	1 – 1	
active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compreh	-	
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046117 Czech -Advanced	Z	2
Comprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation	1 – 1	_
Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical	-	cooling opinions.
	Z	2
2046127 Czech - Upper Intermediate Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Al		
	mity to describe exp	enences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	7	0
2046128 Czech - Upper Intermediate	Z	2
Mapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration profession		
terminology. Comprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on int knowledge technical language.	ermediale level. Bro	adening the
2046119 Czech Language for Beginners I.	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (prof		
2046120 Czech Language for Beginners II.	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Underst	anding and use of ba	asic expressions
of general scientific terminology (professional language).		
2046086 French - Lower Intermediate Course	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.	Vriting in a simple w	ay about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087 French - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations whi	ch a student meets	at school or in
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	t of professional lan	guage.
2046091 French - Advanced	Z	2
Mapped to the level of common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on	topics familiar to the	student.
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading	-	
currant issues and popular scientific and technical articles.	-	-
2046090 French - Advanced	7	2
Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participa	ion in discussions.	Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and	technical articles.	
2046089 French - Upper Intermediate	Z	2
Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students	1 1	
during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and under		
2046088 French - Upper Intermediate	Z	2
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Al	1 1	
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	inty to describe exp	
	Z	2
2046084 French - Beginners		
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. It topics. Reading and comprehension of simple texts. Improvement of professional language.	vinuing in a simple w	ay about lamiliar
	7	0
2046085 French - Beginners' Course	Z	2
Mapped to the level of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations whi		
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2146060 Indonesian Language Course for Exchange	Z	2
Basic of Indonesian Language for Student Exchange Program to Indonesia		
2146061 Technical Indonesian - Course I.	Z	2
Second part of Indonesian Language for Student Exchange Program to Indonesia		
2144062 Technical Indonesian - Course II.	Z,ZK	3
Basic of Indonesian Language for Student Exchange Program to Indonesia		
2046078 German - Lower Intermediate Course	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking a		
about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	1 – 1	n a simple way
	1 – 1	n a simple way
2046079 German - Lower Intermediate Course	1 – 1	n a simple way
2046079 German - Lower Intermediate Course Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations wi	bout them. Writing i	2
	bout them. Writing i	2 either at school
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whether the second sec	bout them. Writing i	2 either at school
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations who or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver	bout them. Writing i	2 either at school language. 2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whor in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course	bout them. Writing i	2 either at school language. 2 great difficulties
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whor in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given	bout them. Writing i	2 either at school language. 2 great difficulties
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehesion of student's field of studies without difficulties. Grammar structures on advanced level.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehesion external student's field of studies without difficulties. Grammar structures on advanced level. 2046082 German - Advanced Course	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German - Advanced Course 2046082 German - Advanced Course 2046082 German - Advanced Course Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation of spoken language as well as lectures in German on topics familiar to the student.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations with or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German - Advanced Course 2046082 German - Advanced Course 2046082 German - Advanced Course Comprehension of spoken I anguage as well as lectures in German on topics familiar to the student. Communication with native speakers, participa opinions. Written skills, Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and understanding texts concerning currant issues and popular scientific and the student.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2 Expressing
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German - Advanced Course 2046082 German - Advanced Course 2046082 German - Advanced Course Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation of spoken language as well as lectures in German on topics familiar to the student.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2 Expressing 2

0040000		7	2
2046080	German - Upper Intermediate Course		_
-	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab	inty to describe exp	enences and
	one's opinions and plans. Reading and understanding general and technical texts.	7	0
2046076	German - Beginners	Z	2
-	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	essional language)	t corresponds to
	an Framework of Reference for Languages A1.		
2046077	German - Beginners	Z	2
Mapped to the level 0	common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expressions of
general scientific terr	ninology (professional language).		
2046161	Presentations in English	Z	2
Preparing students to	present in English on technical topics, with a possible co-operation with specialized departments.		
2046166	Presentations in Czech	Z	2
Preparing students to	give presentations in English on technical topics, with a possible co-operation with specialized departments.	1	
2046162	Presentations in German	Z	2
	nting technical topics in German, possibly in cooperation with specialized departments.		-
2046164	Presentations in Russian	Z	2
			2
	nting technical topics in Russian, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
	nting technical topics in French, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
Preparation for prese	nting technical topics in Spanish, possibly in cooperation with specialized departments.		
2046137	Russian - Lower Intermediate Course	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	/riting in a simple w	ay about familia
topics. Reading and o	omprehension of simple texts. Improvement of professional language.		-
2046138	Russian - Lower Intermediate Course	Z	2
	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a s		
	g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of prof		
		ooolonian languago.	
	Russian Advanced	7	2
2046141	Russian - Advanced	Z	2 Expressing
Comprehension of sp	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa		
Comprehension of sp opinions. Written skill	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and in	technical articles.	. Expressing
Comprehension of sp opinions. Written skill 2046142	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced	technical articles.	Expressing
Comprehension of sp opinions. Written skill 2046142 Mapped to the level of	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced f Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on	technical articles. Z topics familiar to th	Expressing 2 ne student.
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List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
	An introductory course in ordinary differential equation and infinite series.		•
2011021	Constructive Geometry	Z,ZK	6
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	•

2011056	Mathematica	7 74	I 0
n the course, great	Mathematics I ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections	Z,ZK between conce	8 pts. Student
-	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eig of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		-
2011062	Matematika II.	Z.ZK	8
1	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentia	,	-
	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, F		0
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
201A056	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation Mathematics I.A	IS. ZK	4
	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
201A062	Mathematics II.A	ZK	4
-	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentia		-
. ,	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, F		
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
tield, independenc	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	tield through a s	surface. The
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
-	ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves.	-	
	atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and p		
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experi		
2021041	Physics I.	Z,ZK	7
-	amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prop		
	achanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Con		
nsulators. Magneti	c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect	t measurements	, regressic
1	measurements of 11 various experiments related to the lectures.		
2026016	Physics - Seminar	Z	2
	The subject is mainly meant for high-school students for repetition of high-school physics.		
202A041	Physics I.	ZK	3
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2046074	English - Advanced	Z	2
	sion of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and or		
evel. Addity to write a	summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studie Grammar structures on advanced level. B1 - B2.	es without o	annculties
0040075		7	0
2046075	English - Advanced	Z	2
	ton European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English with	-	
nu active participation	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	populai-sci	ienunc ai
2046076		Z	2
2046076	German - Beginners	- 1	2
asic vocabulary of eve	the Common European Framework of Reference for Languages A1.	lage) it con	responds
2046077	German - Beginners	7	2
1	ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding and use of	- 1	
	general scientific terminology (professional language).		100010110
2046078	German - Lower Intermediate Course	Z	2
	early what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking about them. V	- 1	
in. Onderstanding cit	about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	vinung in a .	simple w
2046079	German - Lower Intermediate Course	Z	2
I	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student		
	e and speaking about them. Writing in a simple way about familiar topics, reading and comprehesion of simple texts. Improvement of pro		
2046080	German - Upper Intermediate Course	7	2
	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to desc	rihe evperiu	
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	ovherig	511003 dl
2046081	German - Upper Intermediate Course	Z	2
	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students comes acro	_	
	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding gene		
2046082	German - Advanced Course	Z	2
	poken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation in disc	- 1	
	ten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tech		
2046083	German - Advanced Course	7	2
1	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German w	vithout area	
	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of	-	
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046084	French - Beginners	7	2
nderstanding clearly v	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 sin topics. Reading and comprehension of simple texts. Improvement of professional language.	nple way ab	oout fami
2046085	French - Beginners' Course	Z	2
	f Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a student	_	
his/her free time ar	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	essional lan	iguage.
2046086	French - Lower Intermediate Course	Z	2
nderstanding clearly v	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 sin	nple way at	oout fami
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	f Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a student	_	
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
2046088	French - Upper Intermediate	Z	2
I	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to desc	- 1	
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046089	French - Upper Intermediate	Z	2
	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students comes acro		
	alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding gene		
2046090	French - Advanced	7	2
	poken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation in disc	ussions Ex	
-	ten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tech		
2046091	French - Advanced	Z	2
	I of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on topics far	_	
	ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understa		
	currant issues and popular scientific and technical articles.	3	
2046096	Spanish - Beginners	Z	2
1	early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing		
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		,
2046097	Spanish - Beginners	Z	2
	non European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student r	- 1	
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
	Spanish - Lower Intermediate	Z	2
2046098	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 sin	- 1	
2046098 nderstanding clearly v			
1	topics. Reading and comprehension of simple texts. Improvement of professional language.		
nderstanding clearly v	topics. Reading and comprehension of simple texts. Improvement of professional language.	7	2
2046099	topics. Reading and comprehension of simple texts. Improvement of professional language. Spanish - Lower Intermediate Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a student meets	Z	2 or in his/

20/16/11/	Czech -Advanced	Z	2
2046117	oken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc	_	
Written	skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	echnical articles.	
2046118	Czech -Advanced	Z	2
lapped to the level o	f Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	h without great o	difficulties a
active participation	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	ion of popular-so	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
Basic vocabu	lary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langu	
2046120	Czech Language for Beginners II.	7	2
	on European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	- and use of basi	1
	of general scientific terminology (professional language).		0 070100010
2046125	Czech Lower Intermediate	7	2
1		_	1
am: Understanding o	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	whung in a simp	ne way abc
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	-	
2046126	Czech Lower Intermediate	Z	2
im: Understanding o	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 simp	ole way abo
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046127	Czech - Upper Intermediate	Z	2
Jnderstanding stan	dard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe expe	riences ar
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	on European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	ech and commor	
	ehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm		-
	knowledge technical language.		J
2046135	Russian - Beginners	7	2
	lary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	
		-	
2046136	Russian - Beginners	Z	2
lapped to the level of	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basic	expression
	of general scientific terminology (professional language)		
2046137	Russian - Lower Intermediate Course	Z	2
nderstanding clearly	v what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way	about fam
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046138	Dussian I such Interne dista Course		
2040130	Russian - Lower Intermediate Course	Z	2
		_	-
apped to the level o	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer	nt meets at schoo	ol or in his/
apped to the level o free time and	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	nt meets at schoo professional lang	ol or in his/ uage.
apped to the level o free time and 2046139	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate	nt meets at schoo professional lang Z	ol or in his/ uage.
apped to the level o free time and 2046139	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	nt meets at schoo professional lang Z	ol or in his/ uage.
apped to the level o free time and 2046139	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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.	nt meets at schoo professional lang Z to describe expe	ol or in his/ uage. 2 priences ar
apped to the level o free time and 2046139 Understanding stand 2046140	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate	t meets at schoo professional lang Z to describe expe	ol or in his/ uage. 2 priences ar
apped to the level o free time and 2046139 J Jnderstanding stand 2046140 J Apped to the level	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me	t meets at schoo rofessional lang Z to describe expe Z ets at work, at sc	eriences ar
apped to the level o free time and 2046139 J Jnderstanding stand 2046140 J Mapped to the level se time, and talking	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me about these topics. Ability to describe experiences and events, briefly explain one 's opinions and plans. Reading and understanding	t meets at schoo professional lang Z to describe expe Z ets at work, at so ng general and te	ol or in his/ uage. 2 eriences ar 2 chool, durii
apped to the level o free time and 2046139 Jnderstanding stand 2046140 /lapped to the level ie time, and talking 2046141	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me about these topics. Ability to describe experiences and events, briefly explain one 's opinions and plans. Reading and understandir Russian - Advanced	t meets at schoo professional lang Z to describe expe Z ets at work, at sc ng general and te Z	bl or in his, uage. 2 priences au 2 chool, duri echnical te 2
apped to the level o free time and 2046139 Jnderstanding stand 2046140 /lapped to the level ie time, and talking 2046141	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me about these topics. Ability to describe experiences and events, briefly explain one 's opinions and plans. Reading and understanding	t meets at schoo professional lang Z to describe expe Z ets at work, at sc ng general and te Z	bl or in his, uage. 2 priences au 2 chool, duri echnical te 2
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2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4	
	rical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, t			
Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines				
2144062	Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia	Z,ZK	3	
2146060	Indonesian Language for Student Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2	
2146061	Technical Indonesian - Course I.	Z	2	
2182019	Second part of Indonesian Language for Student Exchange Program to Indonesia	KZ	3	
	Chemistry ry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		-	
phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement.				
2321039	Materials Science II.	Z,ZK	4	
	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi	hermo-mechanical	1	
2321067	Technical Application of Materials	Z,ZK	5	
	aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend	· ·	-	
descri	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.	-	
2321501		Z,ZK	4	
The course characterizes individual groups of new construction materials. In addition to the development and physical nature of these materials, the most commonly used types of recently developed materials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability and methods of their designations				
2321503	are also presented.	Z,ZK	5	
	Technical testing of materials on of properties. Verification of properties in a certified quality management system. Accredited test laboratory and test systems, test		1	
	ting the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in			
standar	ds. Test of resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defe	ects in the material		
2322029	Materials Science I.	KZ	3	
	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	-		
	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	-	-	
2322041	Heat treatment	KZ	4	
	undamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion fo	-		
2322091	Project preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	KZ	ed literature	
with particular emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate hitherto obtained				
2222002	knowledge or results.	7	r.	
2323993 2331071	Bachelor Thesis	Z Z,ZK	5 5	
	Automation of Production Processes c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizat	, ,	-	
steel foundries. Automation and robotics of die casting processe, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.				
2331505	Welding Technology	Z,ZK	4	
2332091	Project	κz	2	
2341001	Metrology	Z,ZK	5	
	ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seco		1	
in 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness. Measurement automatisation.				
2342005	Quality Control	KZ	2	
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				
	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	-		
2342091	Project Work on specialized tasks.	KZ	2	
2372041	Computer Support for Study	KZ	3	
	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t	-		
	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni	ical-based WWW p	-	
2383001 Basic orientation in	Fundamentals of Law n legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	∣ ∠ le a view into the 0	2 Zech 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				
2383009	Communication and Dealing with People	Z	2	
Human communio	cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.	with specific modif	ications) to	
K331068 Technology I Z,ZK 5				
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products, heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.				
K333038 Fundamentals of Technology I. Z 3				
Production proces	ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr	nical metals. Produ	ction of pig	
I Iron and stool (Ca	sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech	mology. Hot and c	via torging.	

Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame
welding and arc welding with coated electrodes. Thermal cutting.

K341014

Technology II.

Z,ZK

5

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-08-10, time 13:34.