### 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: Manufacturing and Economy in Mechanical Engineering

Type of study: Bachelor 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:

note on the gr	·					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I.  Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Lucie Pilsová, Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka <b>Ivana Linkeová</b>	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2132001	Engineering Design I. Karel Petr	KZ	2	1P+2C	1	Р
2131002	Engineering Design II Martin Dub, Jan Flek, Martin Havlí ek, Jan Kanaval, Karel Petr, Marek Štádler, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р

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

2182019 Chemistry

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

oriented upon the material properties measurement.

2021041	Physics I.	Z,ZK	7
Kinematics and dyna	mics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elas	stic properties of bodi	es. Oscillations,
waves. Fluid mechar	nics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance.	Conductors, semicon	ductors,
insulators. Magnetic	field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and	indirect measuremen	ts, regression,
measurements of 11	various experiments related to the lectures.		
2011021	Constructive Geometry	Z,ZK	6
The subject is focuse	ed on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
2011056	Mathematics I	Z,ZK	8
In the course, greate	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and conr	nections between con	cepts. Students
will also get to know t	he procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic a	reas: eigennumbers a	nd eigenvectors
of a matrix, Taylor po	olynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
Open and closed set	t, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Diff	erential operators div	(divergence)
and curl (rotation). Fu	ınction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) int	egral, 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 p	otential vector
	of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a	vector field through a	surface. The
Gauss-Ostrogradskij	theorem.		
2322029	Materials Science I.	KZ	3
	state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, o		
fracture of materials,	structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations	, iron-carbon phase o	liagram.
2012037	Computer Graphics	KZ	3
2372041	Computer Support for Study	KZ	3
The course introduce	es students into creating technical and professional documents on computers or Web and into realizing technical computations	with the use of comp	uters. Students
gain practical skills b	y creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technic	cal-based WWW page	Э.
2132001	Engineering Design I.	KZ	2
Basic of technical re	presentation, dimensioning and tolerancing		
2131002	Engineering Design II	Z,ZK	4
Principles of ISO GP	S (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, su	urface texture, geome	trical tolerance,
dimensional loops, to	olerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice	their knowledge from	lectures.
2131005	History of Technology	ZK	3
Developement of hu	man knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphas	is is given upon new b	oranches of
technology with spec	cial attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the	ne narrower sense of	the word.

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:

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
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

K333038	Fundamentals of Technology I.	<sub>l</sub> Z	3
Production processes in	engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, ter	chnical metals. Pr	roduction of pig
iron and steel. Casting:	nodeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming to	echnology. Hot an	nd cold forging.
Free and drop forging F	olling Production of nines. Bulk and sheet metal forming Walding technology. The characteristics of the various types of we	Idina Fusion well	ding: Flame

welding 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.

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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
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р

2311004	Mechanics for Technology	Z,ZK	7	4P+2C	*	Р
2321039	Materials Science II. Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Jan Walter, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Stanislav Krum Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
K331068	Technology I Bohumír Bedná	Z,ZK	5	16B	*	Р
2121023	Thermodynamics	Z,ZK	5	3P+2C	*	Р

2021025	Physics II.	Z,ZK	4
Faraday's law of ele	electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical o	ptics. Quantum properties of electromagnetic v	vaves. Interactio
of radiation with m	matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle	e's motion. Hydrogen atom and periodic system	m of elements.
Spectra, x-rays, ;la	laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laborat	ories - measurements of 6 experiments relate	d to the lectures
2011009	Mathematics III	Z,ZK	5
An introductory co	course in ordinary differential equation and infinite series.	·	
2311004	Mechanics for Technology	Z,ZK	7
2321039	Materials Science II.	Z,ZK	4
	Materiale Coloride II.		
Fundamentals of n	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combin	ned chemical and thermal and thermo-mecha	nical processing
Fundamentals of n	I and the second se	ned chemical and thermal and thermo-mecha	nical processing
Fundamentals of n	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combin	ned chemical and thermal and thermo-mecha	nical processing
Fundamentals of natechnical iron-carb	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combinations, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of non-	ned chemical and thermal and thermo-mechan naterials. Z,ZK	5
Fundamentals of national technical iron-carb K331068 Foundry properties	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combination alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of national Technology I	ned chemical and thermal and thermo-mechainaterials.  Z,ZK astic deformation. Division of forming processes	5
Fundamentals of natechnical iron-carb K331068 Foundry properties heating-up. Cutting	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combination alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of national Technology I es of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Pla	ned chemical and thermal and thermo-mechainaterials.  Z,ZK astic deformation. Division of forming processes	5
Fundamentals of n technical iron-carb K331068 Foundry properties heating-up. Cutting 2121023	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combination alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of national Technology I es of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plang. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.	ned chemical and thermal and thermo-mechan naterials.  Z,ZK astic deformation. Division of forming processes nent.  Z,ZK	5 s. Semi-products
Fundamentals of n technical iron-carb K331068 Foundry properties heating-up. Cutting 2121023 The course deal w	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combination alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of national Technology I are of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plang. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment. Thermodynamics	need chemical and thermal and thermo-mechan naterials.  Z,ZK astic deformation. Division of forming processes nent.  Z,ZK rough nozzles and diffusers. Basic concepts a	5 s. Semi-products 5 nd principles ar
Fundamentals of natechnical iron-carbon K331068 Foundry properties heating-up. Cutting 2121023 The course deal was introduced, and the	f metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combination alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of national Technology I  es of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plang. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatmates Thermodynamics  with a basic engineering approach to classical thermodynamics, heat transfer and compressible flow the	need chemical and thermal and thermo-mechan naterials.  Z,ZK astic deformation. Division of forming processes nent.  Z,ZK rough nozzles and diffusers. Basic concepts a th ideal mixtures are studied with an emphasis o	5s. Semi-products 5 nd principles ar

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
2381075	Enterprise Management and Economics	Z,ZK	5	2P+2C	4	Р
2383102	Personnel Management Jan Horejc	Z	2	2P+1C	*	Р
2342005	Quality Control Jan Podaný	KZ	2	1P+1C+1L	*	Р
K341014	Technology II. Pavel Novák	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

2381075	Z,ZK	5				
2383102	Z	2				
Personnel / human reso	Personnel / human resource management is concerned with the effective management of people at work. Subject examines what can or should be done to make people both more					
productive and more sat	isfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the l	numan resources	of organizations.			
2342005	Quality Control	KZ	2			
Basic quality control teri	ns, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta	tistical process co	ontrol, statistical			
sampling. Tools and me	sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.					
K341014	Technology II.	Z,ZK	5			

Code of the group: 12BV\*5P

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

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

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

Credits in the group: 11 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2131519	Machine Elements for Technology Martin Dub, Martin Havlí ek, Jan Kanaval, Eliška Cézová, Zden k ešpíro, František Lopot, Roman Uhlí, Ji í Houkal, Ond ej Što ek František Lopot František Lopot (Gar.)	Z,ZK	5	2P+3C	*	Р
2381068	Cost Accounting Theodor Beran, Ladislav Vaniš Theodor Beran Theodor Beran (Gar.)	Z,ZK	5	2P+2C	*	Р
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	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

2131519	Machine Elements for Technology	Z,ZK	5
2381068	Cost Accounting	Z,ZK	5

The subject presents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budgeting (expected cost), so the individual achievements (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). Emphasis is laid on the relation of costs on the whole - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budgeting and accounting structure (individual cost items) into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also modern approaches in costing. The subject Cost Accounting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate products, which are compared with the market price and finding out as their profitability, so their acceptability or unacceptability manufacturing program.

Introduction to Electrical Engineering for Technology

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

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 Libor Beránek, Petr Mikeš Pavel Novák	Z,ZK	5	2P+0C+2L	*	Р
2331505	Welding Technology Ladislav Kola ík, Marie Kola íková, Pavel Rohan Ladislav Kola ík Ladislav Kola ík (Gar.)	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

2341001 Metrology, intergration into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondary standarts. Measurement in 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness. Measurement automatisation

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:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2331071	Automation of Production Processes  Ladislav Kola ík, Jaroslav ervený, Aleš Herman, Viktor Kreibich, Ji í Kucha,  Vít Novák, František Tatí ek Aleš Herman Aleš Herman (Gar.)	Z,ZK	5	3P+2C	*	Р
2381098	Enterprise Finance František Freiberg František Freiberg (Gar.)	Z,ZK	4	2P+2C	*	Р
2382048	Statistical and Decision Analysis  Barbora Stieberová Barbora Stieberová (Gar.)	KZ	4	2P+1C	*	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

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 workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.

2381098 Enterprise Finance Z,ZK 4

The subject Financing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an understanding of the main con-cepts and their practical application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and purpose of projected financial statements and their role in the development of future plans for a business and in the assessing the impact of management decision on the performance and position of a business, factors which must be taken into account when managing the working capital of a business, various aspects of financing the business through external and internal sources of finance available to a business, ways how business can make decision and evaluation involv-ing investments in new technology, and various aspects of mergers and takeovers.

2382048 | Statistical and Decision Analysis | KZ | 4 Statistical analysis is a good basis for a creation of decision-making models. The goal of this subject is to teach students to apply the selected statistical method, to apply models of

Statistical analysis is a good basis for a creation of decision-making models. The goal of this subject is to teach students to apply the selected statistical method, to apply models decision analysis, to create models for the management of industrial enterprises.

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	(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	*	Р
2321501	Lucie Pilsová, Jakub Horváth, Ji í Janovec <b>Jana Sobotová</b> Jakub Horváth (Gar.)	Z,ZK	4	3P+1C	*	Р
2381174	Enterprise Information Systems Vladimír Brdek	Z,ZK	4	2P+2C	*	Р
2321503	Technical testing of materials Ji í Cejp, Elena ižmárová Elena ižmárová (Gar.)	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			

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 are also presented.

2381174	Enterprise Information Systems	Z,ZK	4
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 resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defects in the 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

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
2383019	Philosophical Issues Of Individual and Science	Z	2	1P+1C	*	PV
2383009	Communication and Dealing with People Jan Horejc Jan Horejc (Gar.)	Z	2	1P+1C	*	PV
2383008	Managerial Psychology	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

2383019	Philosophical Issues Of Individual and Science	Z	2			
2383009	Communication and Dealing with People	Z	2			
Human communication	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.						
2383008	Managerial Psychology	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 Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Nina</b> <b>Procházková Ayyub</b>	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Eliška Vítková (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Eliška Vítková	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková	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 European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,						
to write a summary, a r	eport and an essay, to read technical texts, to master grammar at advanced level.					
2041063	French - Bachelor Exam /FME	Z,ZK	2			
Mapped to the Common	n European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diffi	culties, to take par	rt in discussions,			
to write a summary, a r	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	n European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diffi	culties, to take par	rt in discussions,			
to write a summary, a r	eport and an essay, to read technical texts, to master grammar at advanced level.					
2041065	Russian - Bachelor Exam / FME	Z,ZK	2			
Mapped to the Common	n European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diffi	culties, to take par	rt in discussions,			
to write a summary, a r	eport and an essay, to read technical texts, to master grammar at advanced level.					
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2			
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,						
to write a summary, a r	eport and an essay, to read technical texts, to master grammar at advanced level.	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
2381002	Fundamentals of Economics Theodor, Beran, Theodor, Beran (Gar.)	Z,ZK	5	2P+2C	*	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.

2381002 Fundamentals of Economics

The course is focused on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating of the economics according to so called macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different markets and competitions.

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 Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Jakub Horváth, Stanislav Krum	KZ	2	0P+2C	*	PV
2382091	Specialization Project Ladislav Vaniš, Barbora Stieberová, Vladimír Brdek František Freiberg	KZ	2	0P+2C	*	PV
2332091	Project Ladislav Kola ík, Marie Kola íková, Pavel Rohan, Tomáš Gur ík, Jaroslav ervený, Aleš Herman, Viktor Kreibich, Ji í Kucha, František Tatí ek, Ladislav Kola ík Aleš Herman (Gar.)	KZ	2	0P+2C	*	PV
2342091	Project Libor Beránek, Michal Koptiš, Petr Mikeš, Jan Šimota, Jan Urban, Vladislav Andronov, František Holešovský, Tomáš Kellner, Ji í Kyncl, Pavel Novák	KZ	2	0P+2C	*	PV

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

2322091 | Project
On the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature with particular emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate hitherto obtained knowledge or results.

2382091	Specialization Project	KZ	2			
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:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
202A041	Physics I.	ZK	3	0P+0L	*	V

201A021	Constructive Geometry A Ivana Linkeová	ZK	3	0P+0C	*	V
201A056	Mathematics I.A Radka Keslerová	ZK	4	0P+0C	*	V
201A062	Mathematics II.A Radka Keslerová	ZK	4	0P+0C	*	V

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

202A041   1 Tiysics 1.	
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	ıs,
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, regressior	١,
measurements of 11 various experiments related to the lectures.	

201A021	Constructive Geometry A	ZK	3		
The subject is focused	he subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.				
201A056	Mathematics I.A	ZK	4		
Introduction to linear al	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

Dhysics I

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:

2024041

Pokud si chce student své dosud získané znalosti (například z matematiky, fyziky, cizích jazyků atd.) doplnit, může si zapsat některý z volitelných předmětů, které příslušné ústavy pro 1. semestr

(zimní) vypisují. Doporučujeme zejména předměty uvedené v této skupině

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

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

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

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

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

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Michaela Schusová</b> Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V

2046074	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate  Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub,  Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate  Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub,  Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046068	English - Beginners  Eliška Vitková, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika  Kratochvílová <b>Michaela Schusová</b> Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced	Z	2	0P+2C	Z	V
2046127	Jaroslava Kommová  Czech - Upper Intermediate	Z	2	0P+2C	Z	V
2046128	Jaroslava Kommová  Czech - Upper Intermediate	Z	2	0P+2C	L	V
2046119	Jaroslava Kommová  Czech Language for Beginners I.	Z	2	0P+2C	Z	V
2046120	Jaroslava Kommová  Czech Language for Beginners II.	 	2	0P+2C		V
2046086	Jaroslava Kommová  French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela	Z	2	0P+2C	Z	V
2046087	Schusová (Gar.) French - Lower Intermediate Course	Z	2	0P+2C	L	V
2046091	Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> French - Advanced		2	0P+2C	L	V
2046090	Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> French - Advanced  Eliška Vítková, Michaela Schusová, Dušana Jirovská <b>Eliška Vítková</b> Eliška	Z	2	0P+2C	Z	V
2046089	Vítková (Gar.)  French - Upper Intermediate	Z	2	0P+2C	L	V
2046088	Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> French - Upper Intermediate	7	2	0P+2C	Z	.,,
2046088	Eliška Vítková, Michaela Schusová, Dušana Jirovská <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	UP+2C		V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046085	French - Beginners´ Course Michaela Schusová, Dušana Jirovská Michaela Schusová (Gar.)  Schusová (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  Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046083	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z	2	0P+2C	L	V
2046082	German - Advanced Course  Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela  Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V

	T					
2046076	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046161	Presentations in English Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	*	V
2046166	Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Petr Laurich (Gar.)	Z	2	0P+2C	*	V
2046162	Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Eliška Vítková (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046163	Presentations in French language Eliška Vítková, Dušana Jirovská <b>Dušana Jirovská</b> Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská 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 Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046135	Russian - Beginners Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Eliška Vítková, Michaela Schusová, 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	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 | 7 | 2

2046155	English Conversation	Z	2
Improving communic	ative skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communic	ative skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
Mapped to the Comm	non European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets	either at school
or at his/her free time	and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of 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 about the	m. Writing in a si	mple way about
familiar topics. Readi	ng and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehen	sion of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	ten and oral skills	on advanced
level. Ability to write a	summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	ld of studies with	out difficulties.
Grammar structures	on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Comm	non European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	inglish without gr	eat difficulties
and active participati	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprel	nension of popula	ar-scientific and
scientific articles or to	exts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072	English - Upper Intermediate	Z	2
The aim is to extend I	anguage skills taking into consideration professional English and common professional terminology. Comprehension of standard	English speech	and conversation
about topics of every	day life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		

2046073	Foodale. Upper Internal distance	7 7	
	English - Upper Intermediate n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Er	nglish and common	2 professional
	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interi		
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 terminology (	professional langua	ge). A1
2046069	English - Beginners	Z	2
' '	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa	nding and use of ba	sic expressions
	ninology (professional language).		
2046126	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	iem. Writing in a sim	iple way about
2046125	and comprehension of simple texts. Improvement of professional language.	Z	2
!	Czech Lower Intermediate  arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about th	_	
	and comprehension of simple texts. Improvement of professional language.	ioni. Whiting in a sin	ipic way about
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	1	
active participation in	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension	nsion of popular-sci	entific and
scientific articles or te	s from student's field of studies without difficulties. Grammar structures on advanced level.		
2046117	Czech -Advanced	Z	2
	ten language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in		essing opinions
	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a		
2046127	Czech - Upper Intermediate	Z	2
_	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abi ne´s opinions and plans. Reading and understanding general and technical texts.	lility to describe expe	eriences and
2046128	Czech - Upper Intermediate	Z	2
	Оzectr - Opper intermediate n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professiona	1	
' '	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inte		-
knowledge technical la			<b>3</b> · ·
2046119	Czech Language for Beginners I.	Z	2
Basic vocabulary of ev	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	ssional language)	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Commo	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa	nding and use of ba	sic expressions
	ninology (professional language).		
2046086	French - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	riting in a simple wa	ay about familia
-	mprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations whicl Beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046091	French - Advanced	Z	2
	ן ו פרופון - Advarteed 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	-	
	ular scientific and technical articles.		
2046090	French - Advanced	Z	2
Comprehension of spo	ven language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	on in discussions. E	xpressing
opinions. Written skills	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.	
2046089	French - Upper Intermediate	7	2
		Z	
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students of	comes across at wo	
<u> </u>	lking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst	comes across at wo	technical texts
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Understanding dearty 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 familiat optics. Reading and comprehension of simple texts. Improvement of professional language.  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 student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046141   Russian - Advanced  Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Writine skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.  2046142   Russian - Advanced  Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation 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.  2046140   Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046139   Russian - Deport Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking a	Preparation for present	•	' '	
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiat optics. Reading and comprehension of simple texts. Improvement of professional language.  2046138   Russian - Lower Intermediate Course  Mapped to the level of Common European Framework of Reference: A2 Understanding glearly 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 familiat ropics. Reading and comprehension of simple texts. Improvement of professional languages.  2046141   Russian - Advanced   Z   2   2   2   2   2   2   2   2   3   3	2046137	Russian - Lower Intermediate Course	Z	2
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 student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046141   Russian - Advanced   Z   2   2   2   2   2   2   2   2   2	Understanding clearly v	, vhat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wi	iting in a simple w	ay about familiar
Mapped to the level of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046141 Russian - Advanced Comprehension of spoken language as well as lectures in Russian 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 and understanding texts concerning currant uses and popular scientific and technical articles.  2046142 Russian - Advanced Agoped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant with the level of Common European Framework of Reference: A2 B1 Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding devents, briefly explain one's opinions and plans. Reading and understanding and use of	topics. Reading and co	mprehension of simple texts. Improvement of professional language.		
2046141   Russian - Advanced   Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2046138	Russian - Lower Intermediate Course	Z	2
Russian - Advanced Comprehension of spoken language as well as lectures in Russian 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 and understanding texts concerning currant issues and popular scientific and technical articles.  2046142  Russian - Advanced  Russian - Mayon European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian 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 and understanding texts concerning currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Z 2  20461439  Russian - Upper Intermediate  Duderstanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046139  Russian - Upper Intermediate  Z 2  2046139  Russian - Beginners  Z 2  2046136  Russian - Beginners  Z 2  2046099  Spanish - Lower Intermediate  Duderstanding and understanding and use of basic expressions of general scientific terminology (professional language)  2046099  Spanish - Lower Intermediate  Z 2  2046099  Spanish - Lower Intermediate  Duderstanding clearly what is spoken about terminology (professional language)  2046099  Spanish - Lower Intermediate  Russian - Beginners  Russian - Reading and underst	Mapped to the level of	Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a st	udent meets at sch	nool or in his/her
Comprehension of spoken language as well as lectures in Russian 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 and understanding texts concerning currant issues and popular scientific and technical articles.  2 2 2 Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation 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.  2046140 Russian - Upper Intermediate  Russian - Beginners  Russian - Beginners  Russian - Beginners  Russian - Beginners  Rapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046135 Russian - Beginners  Russian - Beginners	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.	
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.  2046142 Russian - Advanced  Appeal to the level of Common European Framework of Reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation 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.  2	2046141	Russian - Advanced	Z	2
Russian - Advanced  Russian - Advanced  Russian - Advanced  Rusped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation 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.  2046140  Russian - Upper Intermediate  Russian - Beginners  Russian - Reading and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046135  Russian - Beginners  Russian - Reading and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046135  Russian - Beginners  Russian - Beginners  Russian - Beginners  Russian - Reading and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046135  Russian - Beginners  Russian - Beginners  Russian - Reading and written form. Understanding clearly what is spoken about everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046099  Spanish - Lower Intermediate  Russian - Reading and comprehension of simple texts. Improvement of professio				Expressing
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning current issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate Z 2 2 Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding general and technical texts 2046139 Russian - Upper Intermediate Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
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## List of courses of this pass:

Code	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 relat	Z,ZK	6
2011056	Mathematics I	Z,ZK	8
	Infatrier Haucs is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	1	_
will also get to know	v the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas:	eigennumbers and e	eigenvectors
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
•	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differen Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral		,
	ar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree		
	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 function. Flow of a vector function and a vector function. Flow of a vector function and a vector function.	· · · · · · · · · · · · · · · · · · ·	
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relatives.		·
201A056	Mathematics I.A  Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable	ZK	4
201A062	Mathematics II.A	ZK	4
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differen	1	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. Tra	ansformation
of integrals to pola	ar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree	en's theorem. A pote	ential vector
field, independen	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 vect	or field through a s	urface. The
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
=	ectromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of ele	-	
	natter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and		
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiences.		
2021041	Physics I.	Z,ZK	7
waves. Fluid m	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pr echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. C tic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indir	onductors, semicor	nductors,
	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.	T	
202A041	Physics I.	ZK	3
waves. Fluid m	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pr echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. C tic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indir	onductors, semicor	nductors,
insulators. Magne	measurements of 11 various experiments related to the lectures.	cot measurements,	regression,
2041061	English-Bachelor Exam	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficu		I
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2041062	German - Bachelor Exam / FME	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficuto write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	1 '	I
2041063	French - Bachelor Exam /FME	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficuto to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	1 '	1
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficu	1	1
mapped to the con-	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	inioo, to tano partin	4.00400.0.10,
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Con	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficu to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	llties, to take part in	discussions,
2046068	English - Beginners	Z	2
Aim: Basic voo	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology	(professional langua	age). A1
2046069	English - Beginners	Z	2
Mapped to the Cor	mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	ng and use of basic	expressions
	of general scientific terminology (professional language).		

2046070	English - Lower Intermediate	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
2046074	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	Z	2
2046071	English - Lower Intermediate  mmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s		2
	time 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
	ا حال التعالى - كالمجالة التعالى التع		
The diff to to extend	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -	- :	onvordation
2046073	English - Upper Intermediate	Z	2
	ommon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English	_	
	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedia	=	
	knowledge.		
2046074	English - Advanced	Z	2
The aim: compreh	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	n and oral skills on	advanced
level. Ability to wri	te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without	difficulties.
	Grammar structures on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English as well as lectures given in English as well as lectures given in English as a discussion of Spoken English as well as lectures given in En		
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	ision of popular-sc	ientific and
2046076		Z	2
2046076	German - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	2
2046077	German - Beginners	7	2
	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an	_	
mapped to the leve	general scientific terminology (professional language).	a add or badic oxpi	100010110 01
2046078	German - Lower Intermediate Course	7	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		,
2046079	German - Lower Intermediate Course	Z	2
Mapped to the leve	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	student meets eith	er at school
or in his/her free	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	nt of professional la	anguage.
2046080	German - Upper Intermediate Course	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046081	German - Upper Intermediate Course	Z	2
Mapped to the lev	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	es across at work,	at school,
Mapped to the level during free time, an	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com dal talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding	nes across at work,	at school, hnical texts.
Mapped to the level during free time, an 2046082	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course	nes across at work, ng general and tecl	at school, hnical texts.
Mapped to the levi during free time, an 2046082 Comprehension of	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding  German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	nes across at work, ng general and tecl  Z n in discussions. E	at school, hnical texts. 2 xpressing
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Mapped to the level during free time, an 2046082 Comprehension opinions. V 2046083 Mapped to the level	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandir  German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a  German - Advanced Course el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German.	es across at work, ng general and tecl Z n in discussions. E. and technical article Z erman without grea	at school, hnical texts.  2 xpressing es.  2 at difficulties
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2046096	Chariela Deginnera	Z	2
	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.		_
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
Mapped to the C	common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	tudent meets at sc	hool or in
his/her free tir	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	guage.
2046098	Spanish - Lower Intermediate	Z	2
Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	j in a simple way ab	out familiar
00.40000	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate	Z	2
	el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studen and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p		
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		
	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		.g opoo.
2046118	Czech -Advanced	Z	2
	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	h without great diff	iculties 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 comprehens	ion of popular-scie	ntific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Cor	mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic و	expressions
0040405	of general scientific terminology (professional language).	7	0
2046125	Czech Lower Intermediate    Czech Lower Intermediate	Z Z	2
Aim: Understandii	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	writing in a simple	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.	. – .	
, Gridorotarian	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	Trining in a cimple	nay about
2046127	Czech - Upper Intermediate	Z	2
1	landard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	=	
terminology. Cor	mprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	ediate level. Broad	ening the
0040405	knowledge technical language.	7	
2046135	Russian - Beginners	Z Z	2
2046136	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	7	2
	Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basic e	
Wapped to the let	of general scientific terminology (professional language)	and use of basic c.	APICOGIONIO
2046137	Russian - Lower Intermediate Course		
		7	2
_	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	Z g in a simple way ab	2 oout familiar
		1	
2046138	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	1	
Mapped to the leve	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.  Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studen	j in a simple way ab	oout familiar 2 or in his/her
Mapped to the leve	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.  Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	j in a simple way ab	2 or in his/her ge.
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2332091	Project	KZ	2
2331505	Welding Technology	Z,ZK	4
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		
steel foundries. Au	tomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. D	esigning and prog	ramming of
	technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizar		
2331071	Automation of Production Processes	Z,ZK	5
2323993	Bachelor Thesis	Z	5
with particular em	nphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment c knowledge or results.	r evaluate hitherto	obtained
	oreliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and	l .	1
2322091	Project	KZ	2
	ndamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion for	l	1
2322041	Heat treatment	KZ	4
	ials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, i	-	
	iviaterials Science 1.  It state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defo	l	1
2322029	Materials Science I.	KZ	3
	ng the characteristics of metals, polymers, composites and ceramics. resting of material for the limited state is the basic methods in s. Test of resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting def		
	n of properties. Verification of properties in a certified quality management system. Accredited test laboratory and test systems, tes ng the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in		
2321503	Technical testing of materials	Z,ZK	5
0001555	are also presented.	<b></b> - · ·	
recently developed	materials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability and	methods of their o	lesignation
	terizes individual groups of new construction materials. In addition to the development and physical nature of these materials, the n		ed types of
2321501		Z,ZK	4
	es applicability of specific engineering material types and their characteristics. It deals with the current development trends in these		=
	olikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým tren		
2321067	Technical Application of Materials	Z,ZK	5
unuamentais oi Me	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of mater		i hincessili
1	Materials Science II.  etallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the stallurgy.	,	
2321039	Materials Science II.	Z,ZK	4
2311004	Mechanics for Technology	Z,ZK	7
priase equilibrium,	oriented upon the material properties measurement.	mon y. Laboratory	practice is
=	from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioche		-
2182019	Chemistry	KZ	3
0400075	Second part of Indonesian Language for Student Exchange Program to Indonesia		<del></del>
2146061	Technical Indonesian - Course I.	Z	2
	Basic of Indonesian Language for Student Exchange Program to Indonesia		_
2146060	Indonesian Language Course for Exchange	Z	2
·	Basic of Indonesian Language for Student Exchange Program to Indonesia		
2144062	Technical Indonesian - Course II.	Z,ZK	3
	DC-machines		_
Analogue and o	ligital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machine	s. Synchronous ma	achines.
	cal circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, to the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, the circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, the circuits are circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes.		
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
	Basic of technical representation, dimensioning and tolerancing		_
2132001	Engineering Design I.	KZ	2
2131519	Machine Elements for Technology	Z,ZK	5
	special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the		
="	numan knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is	-	
2131005	History of Technology	ZK	3
i	s, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the		_
•	S (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	_	
2131002	Engineering Design II	Z,ZK	4
	problems and experimental technique.		
=	rs fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and		-
	are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with		-
	n a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Ba		-
2121023	Thermodynamics	Z,ZK	5
2046166	Presentations in Czech  Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departm		2
2046466	Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	Z	T 2
2046165	Presentations in Spanish	Z	2
0040405	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
2070107	Presentations in Russian	Z	2
2046164			
2046164	Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	7	

2341001	Metrology	Z,ZK	5
Metrology, intergration	on into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seco	ndary standarts. M	easurement
in 1, 2, end 3 coo	ordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structu Measurement automatisation.	ıre - roughness, w	awiness.
2342005	Quality Control	KZ	2
Basic quality contro	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistic	cal process contro	I, statistical
sam	pling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ntrol systems.	
2342091	Project 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 the		- 1
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	age.
2381002	Fundamentals of Economics	Z,ZK	5
The course is focus	sed on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating	g of the economics	according
to so called	d macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different mark	ets and competitio	ns.
2381068	Cost Accounting	Z,ZK	5
The subject prese	ents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge	eting (expected cos	st), so the
	ents (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). E	•	
	nole - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budgeti	0 0	
	ns) into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also model		-
subject Cost Accou	nting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate put the market price and finding out so their profitability as their accountability as upgenerate bility manufacturing program.	products, which are	e compared
2204075	with the market price and finding out as their profitability, so their acceptability or unacceptability manufacturing program.	7 71/	_
2381075	Enterprise Management and Economics	Z,ZK	5
2381098	Enterprise Finance	Z,ZK	4
-	ing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and p	-	
· · · · · · · · · · · · · · · · · · ·	princation in decision-making. Students gain knowledge of intartical management role within a business, intartical ratios, nature and performance in the development of future plans for a business and in the assessing the impact of management decision on the performance		
	be taken into account when managing the working capital of a business, various aspects of financing the business through external a	=	
	a business, ways how business can make decision and evaluation involv-ing investments in new technology, and various aspects of r		
2381174	Enterprise Information Systems	Z,ZK	4
2382048	Statistical and Decision Analysis	KZ	4
	is a good basis for a creation of decision-making models. The goal of this subject is to teach students to apply the selected statistica		models of
•	decision analysis, to create models for the management of industrial enterprises.		
2382091	Specialization Project	KZ	2
2383001	Fundamentals of Law	Z	2
	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	ources 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 institution	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 t	he course
leads students to kr	now some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relations	ships and to make	them ready
	to prepare professional presentations and to understand basic structures between law and engineering		
2383008	Managerial Psychology	Z	2
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 (v	vith specific modifi	cations) to
	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.		
2383019	Philosophical Issues Of Individual and Science	Z	2
2383102	Personnel Management	Z	2
	n resource management is concerned with the effective management of people at work. Subject examines what can or should be dor		
	e satisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the hum		
K331068	Technology I	Z,ZK	5
Foundry properties	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form		ni-products,
Kaaanaa	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment	 Z	2
K333038	Fundamentals of Technology I. ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techn	ı	3
=	ses in engineering production. Technology or engineering production, materials in engineering, concepts or steer and cast non, technology. Forming technology or engineering devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech		
Free and drop fo	rging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welc	ling. Fusion weldin	g: Flame

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2024-05-20, time 05:10.

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Technology II.

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