Study plan

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

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Manufacturing and Economy in Mechanical Engineering

Type of study: Bachelor combined

Required credits: 90

Elective courses credits: 88 Sum of credits in the plan: 178

Note on the plan: SP12BVES-EKO-K # první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 81

The role of the block: P

Code of the group: 12BVK4P

Name of the group: 09 2012 BVES 4.sem kombi povinné

Requirement credits in the group: In this group you have to gain 22 credits

Requirement courses in the group: In this group you have to complete 5 courses

Credits in the group: 22 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
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	Enterprise Management and Economics	Z,ZK	5			
2383102	Personnel Management	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	sfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the I	numan resources	of organizations.			
2342005	Quality Control	KZ	2			
	Basic quality control terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical process control, statistical					
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			
1 ' '	ns, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta hods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systen	•	ontrol, statistical			

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, Eliška Cézová, Zden k ešpiro, Martin Havlí ek, Ji í Houkal, Jan Kanaval, František Lopot, Ond ej Što ek, Roman Uhlí 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 Václav Pilík Václav Pilík (Gar.)	Z	2	1P+1C	*	Р

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

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.

2141204 Introduction to Electrical Engineering for Technology

7.7K

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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

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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-EKO

Name of the group: 14 2012 BVES 5.sem zam EKO povinné

Requirement credits in the group: In this group you have to gain 18 credits

Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 18 Note on the group:

Code	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
2381514	Project management	Z,ZK	4	2P+2C	*	Р
2381059	Industrial Marketing Št pánka Uli ná Št pánka Uli ná (Gar.)	Z,ZK	5	3P+1C	*	Р
2381504	Accounting Theodor Beran Theodor Beran (Gar.)	Z,ZK	4	2P+2C	*	Р

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

2381514	Project management	Z,ZK	4
2381059	Industrial Marketing	Z,ZK	5
2381504	Accounting	Z,ZK	4

The objective of the subject is to become acquainted with the significance of accounting for enterprise management, with the content and formal structure and realization of the stages and changes of the economic results during the accounting period; further with accounting as a system needful for tax declaration and not least as a resource to financial analysis. The stress is laid on understanding the dichotomy as the basis of the double entry accounting system, which distinguishes the terms assets (in the long term and short term) and liabilities (share-holders? equity, liabilities). Of great importance is the assessing of assets and their parts. Ac-counting relates to other information subsystems as budgeting, cost accounting, short term and long term planning. There are further some other subjects concerning enterprise management, connected with accounting, especially in the field of financial management. Accounting is one of the fundamental instrument of a business manager who understands the content and structure of the balance sheet, profit and loss account and the cash/flow statement. It is very possible that some of the students will exploit the knowledge of accounting in their future occupation as managers, financial directors, in consulting firms and auditing companies.

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:

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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
2331071	Automation of Production Processes Jaroslav ervený, Aleš Herman, Ladislav Kola ík, 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 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 decision analysis, to create models for the management of industrial enterprises.

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

Name of the group: 16 2012 BVES 6.sem zam EKO povinné

Requirement credits in the group: In this group you have to gain 21 credits

Requirement courses in the group: In this group you have to complete 5 courses

Credits in the group: 21 Note on the group:

Code	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
2383993	Bachelor Thesis Ladislav Vaniš, Barbora Stieberová, Jan Lhota František Freiberg František Freiberg (Gar.)	Z	5	0P+6C	*	Р
2381712	Managerial Counting Miroslav Žilka	Z,ZK	4	2P+2C	*	Р
2381174	Enterprise Information Systems Vladimír Brdek	Z,ZK	4	2P+2C	*	Р
2381107	Engineering Ergonomy Ladislav Vaniš Jan Horeic (Gar.)	Z,ZK	4	2P+2C	*	Р

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

2383993	Bachelor Thesis	Z	5
Work on specialized tas	sks related to the focus of a thesis.		
2381712	Managerial Counting	Z,ZK	4

The course is oriented to project management approach. During the course are solved cases that respond to practical situations. The cases are stressed on cost-returns calculations, on the solving interactions among costs, capacity of resources and the price. And also on the calculation typical kinds of variations and their explanation and the selection of the appropriate managerial decision. The students are concerning on the right way of operational budget creation and assessment. The link on the internal company accounting is shown and explain. The computerized models are used by explanation.

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2381174	Enterprise Information Systems	Z,ZK	4
2381107	Engineering Ergonomy	Z,ZK	4

The aim of the subject engineering ergonomics is to become acquainted with the problems, constraints and the optimal solution of the fundamental unit of an enterprise or organization, i.e. with system - man - technology (machine) - environment. The character of the subject is going out from the anthropocentric principle, i. e. that every system MTE as in the manufacturing, managing, technological, designing so in other spheres it is important unambiguously to accommodate them to the possibilities, abilities and skills of the weakest link - that is to the given man. The students will learn not only to start from the man?s limitations during the designing of the MTE system, but also evaluate the existing economic level of the system and design rationalization measures for its optimization. The mission of the subject is that the students will be able in their work on all levels of economic spheres to ensure the optimal wellbeing for themselves and for the users of the designed systems as well as for their subordinates. The not-excludable output is also the health of man and higher quality and productivity of labour.

Code of the group: 12DVK1P-KMEN

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

12B**1P-KMEN#

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2383008	Managerial Psychology	Z	2	1P+1C	*	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
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2132001	Engineering Design I. Karel Petr	KZ	2	1P+2C	1	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р

2182019	Chemistry	KZ	3
General chemistry	from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and pro	perties of matter, therm	odynamics,
phase equilibrium,	chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and	oiochemistry. Laboratory	practice is
oriented upon the r	naterial properties measurement.		
2011021	Constructive Geometry	Z,ZK	6
The subject is focu	sed on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.	' '	
2383008	Managerial Psychology	Z	2
2011056	Mathematics I	Z,ZK	8
In the course, grea	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and co	nnections between con-	cepts. Studen
will also get to know	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic	areas: eigennumbers a	nd eigenvecto
of a matrix, Taylor	polynomial, integral as a limit function, integration of some special functions.		
2372041	Computer Support for Study	KZ	3
The course introdu	ces students into creating technical and professional documents on computers or Web and into realizing technical computation	ons with the use of comp	uters. Studen
gain practical skills	by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator.	nical-based WWW page) .
2132001	Engineering Design I.	KZ	2
Basic of technical r	epresentation, dimensioning and tolerancing		
2131005	History of Technology	ZK	3
Developement of h	uman knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emph	asis is given upon new b	ranches of
technology with sp	ecial attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry ir	the narrower sense of	the word.
K333038	Fundamentals of Technology I.	Z	3
Production process	es in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast irc	n, technical metals. Pro	duction of pig
iron and steel. Cas	ting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Form	ing technology. Hot and	cold forging.
Free and drop ford	ng. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types	of welding Fusion weldi	ng: Flame
r roo and drop long	ng. Nothing. Troudelief of pipes. Built and effect metal forming. Wellang to infloody. The effections of the various types	or moraling. I dolor morali	.ga

Code of the group: 12DVK2P-KMEN

Name of the group: 00 2012 D kmenové 2. semestr VES kombinované

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

Credits in the group: 0

Note on the group:

12B**2P-KMEN#

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jakub Horník, Jana Sobotová, Ji í Cejp, Eliška Gal íková, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р

2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р	
2131002	Engineering Design II Martin Dub, Martin Havli ek, Jan Kanaval, Jan Flek, Karel Petr, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р	

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

2021041 | Physics I. | Z,ZK | 7

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

2011062 Matematika II. Z,ZK

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.

2322029 | Materials Science I. | KZ | 3 | History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, deformation, recrystallization and

2012037 Computer Graphics KZ 3
2131002 Engineering Design II
Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance, dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures.

Code of the group: 12DVK3P-KMEN

Name of the group: 00 2012 D kmenové 3. semestr redukované pro VES kombinované

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

Physics II

Credits in the group: 0

Note on the group:

2021025

12BV*3P-KMEN-R

7 7K

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, Eliška Gal íková, Elena ižmárová, Jan Walter, Pavlína Hájková, Stanislav Krum, Jan Kr il, Jana Sobotová 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

Characteristics of the courses of this group of Study Plan: Code=12DVK3P-KMEN Name=00 2012 D kmenové 3. semestr redukované pro VES kombinované

2021023	i nysics ii.	<u></u> _,	-						
Faraday's law of electron	Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction								
of radiation with matte	of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements.								
Spectra, x-rays, ;laser.	Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures.								
2011009	Mathematics III	Z,ZK	5						
An introductory course	in ordinary differential equation and infinite series.		'						
2311004	Mechanics for Technology	Z,ZK	7						
2321039	Materials Science II.	Z,ZK	4						
Fundamentals of meta	llurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	nd thermo-mechai	nical processing,						
technical iron-carbon a	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.								
K331068	Technology I	Z,ZK	5						
Foundry proportion of	aundry properties of metals Treatment Pouring Casting solidification Moulding and core making Thermal treatment Plastic deformation Division of forming processes Semi-products								

Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products, heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.

2121023

Thermodynamics

7 7K

5

The course deal with a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Basic concepts and principles are introduced, and they are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with an emphasis on psychometrics. Heat transfer covers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and labs are devoted to practical problems and experimental technique.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 9

The role of the block: PV

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

Name of the group: 11 2012 bakalá ské zkoušky z jazyk pro VES

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 10)

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

Credits in the group: 2 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam Michele Le Blanc, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Nina Procházková Ayyub	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 Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Eliška Vítková	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Michaela Schusová, Eliška Vítková, 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 Commor	Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,								
to write a summary, a re	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 Commor	Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,								
to write a summary, a re	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 Commor	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,						
to write a summary, a re	eport and an essay, to read technical texts, to master grammar at advanced level.								
2041065	Russian - Bachelor Exam / FME	Z,ZK	2						
Mapped to the Commor	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,						
to write a summary, a re	eport and an essay, to read technical texts, to master grammar at advanced level.								
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2						
Mapped to the Commor	Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,								
to write a summary, a re	write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.								

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	recnnical Application of Materials	Z,ZK	5
P edm t popisuje apliko	vatelnost jednotlivých skupin inženýrských materiál 🛮 a jejich odpovídající vlastnosti. Rovn 🛽 se v 🗀 nuje aktuálním vývojovým ti	rend mt chtosl	kupin. The subject
describes applicability o	f specific engineering material types and their characteristics. It deals with the current development trends in these materials	as well.	

2381002 Fundamentals of Economics

Z.ZK

5

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 1 povvol 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, Jana Sobotová Jana Sobotová (Gar.)	KZ	2	0P+2C	*	PV
2382091	Specialization Project Ladislav Vaniš, Barbora Stieberová, Vladimír Brdek František Freiberg	KZ	2	0P+2C	*	PV
2332091	Project Jaroslav ervený, Aleš Herman, Ladislav Kola ík, Viktor Kreibich, Ji í Kucha, František Tatí ek, Bohumír Bedná, Barbora Bryksí Stunová, Jan ermák, Ladislav Kola ík Aleš Herman (Gar.)	KZ	2	0P+2C	*	PV
2342091	Project Vladislav Andronov, Libor Beránek, František Holešovský, Tomáš Kellner, Michal Koptiš, Ji í Kyncl, Martin Kyncl, Jan Mádl, Petr Mikeš, Pavel Novák Jan Podaný (Gar.)	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 ta	sks.		

Name of the block: Elective courses
Minimal number of credits of the block: 0

The role of the block: V

Code of the group: 12BV**V-ALFA

Name of the group: 02 2012 ALFA volitelné pro VES

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

Credits in the group: 0 Note on the group:

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

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

202A041 Physics I.

Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations,

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

201A021	Constructive Geometry A	ZK	3			
The subject is focused						
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

Name of the group: 05 2012 doporu ené seminá e

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

Credits in the group: 0

Note on the group: Pokud si chce student své dosud získané znalosti (například z matematiky, fyziky, cizích jazyků

atd.) doplnit, může si zapsat některý z volitelných předmětů, které příslušné ústavy pro 1. semestr

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

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

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

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

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

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

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

Credits in the group: 0 Note on the group:

Note on the grou				,		
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, Ilona Šimice Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Michele Le Blanc, Ilona Šimice Nina Procházková Ayyub	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Michele Le Blanc, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Michele Le Blanc, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046068	English - Beginners Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Michaela Schusová, Ilona Šimice, 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.		2	0P+2C	Z	V
	Jaroslava Kommová Czech Language for Beginners II.					-
2046120	Jaroslava Kommová French - Lower Intermediate Course	Z	2	0P+2C	L	V
2046086	Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046085	French - Beginners' Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela 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 Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	V
2046079	German - Lower Intermediate Course Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046083	German - Advanced Course Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	٧
2046080	German - Upper Intermediate Course Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela	Z	2	0P+2C	Z	٧
	Schusová Michaela Schusová (Gar.)					1
2046076	German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076 2046077	German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela	Z Z	2	0P+2C 0P+2C	Z L	V
	German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.) German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Eliška				_	-
2046077	German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.) German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Eliška Vítková Presentations in English Michaela Schusová, Ilona Šimice, Eliška Vítková, Nina Procházková Ayyub	Z	2	0P+2C	L	V
2046077	German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.) German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Eliška Vítková Presentations in English Michaela Schusová, Ilona Šimice, Eliška Vítková, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.) Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Petr	Z Z	2	0P+2C 0P+2C	L *	V
2046077 2046161 2046166	German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.) German - Beginners Michaela Schusová, Eliška Vítková, Jaroslava Kommová, Petr Laurich Eliška Vítková Presentations in English Michaela Schusová, Ilona Šimice, Eliška Vítková, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.) Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Petr Laurich (Gar.) Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	z z z	2 2	0P+2C 0P+2C 0P+2C	L *	V

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

2046155	English Conversation	Z	2
Improving commun	icative skills in speaking on general topics and general technical topics.	1	•
2046156	English Conversation	Z	2
Improving commun	icative skills in speaking on general topics and general technical topics.	1	1
2046071	English - Lower Intermediate	Z	2
Mapped to the Cor	nmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations wh	nich a student meets	either at schoo
or at his/her free tir	ne and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improv	ement of profession	al 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 si	imple way abou
familiar topics. Rea	ding and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehe	ension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. \	Written and oral skills	s on advanced
level. Ability to write	e a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student	s field of studies with	out difficulties.
Grammar structure	s on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Cor	nmon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given	in English without gr	reat difficulties
and active participa	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and com	prehension of popula	ar-scientific and
scientific articles o	texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072	English - Upper Intermediate	Z	2
The aim is to exten	d language a billion into a consideration and table and a consequence of the control of the cont		· ·
	d language skills taking into consideration professional English and common professional terminology. Comprehension of stand	dard English speech	and conversation
	a language skills taking into consideration professional English and common professional terminology. Comprehension of stand ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	dard English speech	and conversation
		dard English speech	and conversation
about topics of ever	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	Z	2
about topics of ever 2046073 Mapped to the Cor	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate	Z English and commo	2 on professional
about topics of ever 2046073 Mapped to the Cor	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate nmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional	Z English and commo	2 on professional
about topics of eve 2046073 Mapped to the Cor terminology. Comp	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate nmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional	Z English and commo	2 on professional
about topics of ever 2046073 Mapped to the Corterminology. Comp knowledge. 2046068	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate In the similar of the simil	Z English and commo	2 on professional adening gramm
about topics of ever 2046073 Mapped to the Corterminology. Comp knowledge. 2046068	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate Inmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, on interpretable and conversation about topics of everyday life - at school, at work, during free time, and the conversation about topics of everyday life - at school, at work, during free time, and the conversation about topics of everyday life - at school, at work, during free time, and the conversation about topics of everyday life - at school, and the conversation about topics of everyday life - at	Z English and commo	2 on professional adening gramm 2
about topics of ever 2046073 Mapped to the Cor terminology. Comp knowledge. 2046068 Aim: Basic vocabul 2046069	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate Indicate	Z English and commo ermediate level. Broa Z y (professional langu	2 on professional adening gramm 2 uage). A1
about topics of ever 2046073 Mapped to the Cor terminology. Comp knowledge. 2046068 Aim: Basic vocabul 2046069 Mapped to the Cor	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate Inmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate English - Beginners ary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology English - Beginners	Z English and commo ermediate level. Broa Z y (professional langu	2 on professional adening gramm 2 uage). A1
about topics of ever 2046073 Mapped to the Cor terminology. Comp knowledge. 2046068 Aim: Basic vocabul 2046069 Mapped to the Cor	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate Inmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate English - Beginners ary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology English - Beginners Inmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form.	Z English and commo ermediate level. Broa Z y (professional langu	2 on professional adening gramma 2 uage). A1
about topics of ever 2046073 Mapped to the Cor terminology. Comp knowledge. 2046068 Aim: Basic vocabul 2046069 Mapped to the Cor of general scientific 2046126	ryday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate mon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interpretation in the language skills taking into consideration professional rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interpretation in the language skills taking into consideration professional language in the language state of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology. English - Beginners mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding grammar knowledge. A2 - B1.	Z English and common ermediate level. Broad of the second	2 page). A1 2 pasic expression
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Comprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participati Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technic	-	essing opinions.
2046127 Czech - Upper Intermediate	Z	2
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics.	Ability to describe exp	eriences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. 2046128	Z	2
Mapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration profess		
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knowledge technical language. 2046119 Czech Language for Beginners I.	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p		2
2046120 Czech Language for Beginners II.	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Unde of general scientific terminology (professional language).	rstanding and use of ba	asic expressions
2046086 French - Lower Intermediate Course	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about then	n. Writing in a simple w	ay about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language. 2046087 French - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations w		_
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2046091 French - Advanced Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French of the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French of the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French of the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French of the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French of the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Framework of the B1 - B2 Comprehension of spoken language as well as lectures in Framework of the B1 - B2 Comprehension of spoken language as lectures in Framework of the B1 - B2 Comprehension of spoken language as lectures in Framework of the B1 - B2 Comprehension of the B1 - B2 -	Z Z	2 student
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Readi	•	
currant issues and popular scientific and technical articles.		
2046090 French - Advanced Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, partici	Z	2 Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		_xpressing
2046089 French - Upper Intermediate	Z	2
Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a stude during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and und		
2046088 French - Upper Intermediate	Z	2
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics.	Ability to describe exp	eriences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	7	0
2046084 French - Beginners Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about then	Z n. Writing in a simple w	2 av about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		-,
2046085 French - Beginners´ Course	Z	2
Mapped to the level of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations v his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improven		at school or in
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Nis/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvem 2148060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia 2148061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia 2144062 Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia 2046078 German - Lower Intermediate Course Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. 2046079 German - Lower Intermediate Course Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. 2046079 German - Lower Intermediate Course Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and conscientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046082 German - Advanced Course Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participations. Written skills. Ability to write an essay or a report. Reading and un	rent of professional land Z Z Z,ZK Z ut them. Writing in a sind Z which a student meets rement of professional Z ren in German without remprehension of popular Z cipation in discussions. Indicate the company of the	at school or in aguage. 2 2 3 2 nple way about 2 s either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, dechnical texts. 2 eriences and 2 2
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvem 2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia 2144062 Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia 2046078 German - Lower Intermediate Course Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. 2046079 German - Lower Intermediate Course Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of professional language. 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1-B2 The aim: comprehension of spoken German as well as lectures given and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and coscientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046082 German - Advanced Course Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participations. Written skills. Ability to write an essay or a report. Reading and understanding standard speech about familiar topics, that a stude during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and pl	rent of professional land Z Z Z,ZK Z ut them. Writing in a sind Z which a student meets rement of professional Z ren in German without remprehension of popular Z cipation in discussions. Indicate the company of the	at school or in aguage. 2 2 3 2 nple way about 2 s either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, dechnical texts. 2 eriences and 2 2
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvem	rent of professional land Z Z Z,ZK Z ut them. Writing in a sind Z which a student meets rement of professional Z ren in German without remprehension of popular Z cipation in discussions. Indicate the company of the	at school or in aguage. 2 2 3 2 nple way about 2 s either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, dechnical texts. 2 eriences and 2 2

2046166 Presentations in Czech	Z	2
Preparing students to give presentations in English on technical topics, with a possible co-op-	· · · · · · · · · · · · · · · · · · ·	,
2046162 Presentations in German	Z	2
Preparation for presenting technical topics in German, possibly in cooperation with specialize	·	,
2046164 Presentations in Russian	Z	2
Preparation for presenting technical topics in Russian, possibly in cooperation with specialize		,
2046163 Presentations in French language	Z	2
Preparation for presenting technical topics in French, possibly in cooperation with specialized	•	
2046165 Presentations in Spanish	Z	2
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialize	·	,
2046137 Russian - Lower Intermediate Course	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at sci	nool or in his/her free time and speaking about them. Writing in a simple v	way about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		,
2046138 Russian - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference: A2 Understanding clea		
free time and speaking about them. Writing in a simple way about familiar topics. Reading ar		,
2046141 Russian - Advanced	Z	2
Comprehension of spoken language as well as lectures in Russian on topics familiar to the s	· · · · · · · · · · · · · · · · · · ·	s. Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts		
2046142 Russian - Advanced	Z	2
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension		
Communication with native speakers, participation in discussions. Expressing opinions. Writt	en 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
Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding	•	
free time, and talking about these topics. Ability to describe experiences and events, briefly e		
2046139 Russian - Upper Intermediate	Z	2
Understanding standard speech about familiar matters that a student meets at work, at scho		periences and
events, briefly explain one's opinions and plans. Reading and understanding general and ted		
2046136 Russian - Beginners	Z	2
Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of	everyday life in a spoken and written form. Understanding and use of ba	isic expressions
of general scientific terminology (professional language)		
2046135 Russian - Beginners	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of ba		1
2046099 Spanish - Lower Intermediate		2
Mapped to the level of Common European Framework of Reference A2 Understanding clear	• • •	
free time and speaking about them. Writing in a simple way about familiar topics. Reading ar		
2046098 Spanish - Lower Intermediate	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at scl	1001 or in his/her free time and speaking about them. Writing in a simple v	way about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046096 Spanish - Beginners	Z	2
Aim:Understanding clearly what is spoken about everyday situations which a student meets		mple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional lan		
2046097 Spanish - Beginners	Z	2
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding of		
his/her free time and speaking about them. Writing in a simple way about familiar topics. Rea	aing and comprenension of simple texts. Improvement of professional la	nguage.

List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
	An introductory course in ordinary differential equation and infinite series.	'	
2011021	Constructive Geometry	Z,ZK	6
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	
2011056	Mathematics I	Z,ZK	8
In the course, grea	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	s between concep	ts. Students
will also get to knov	v the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: e	igennumbers and e	eigenvectors
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
Open and closed	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different	ial operators div (d	ivergence)
and curl (rotation). I	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,	Fubini theorem. Tra	nsformation
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greei		
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 vecto	or field through a su	urface. The
	Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3

			1 -
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relatio	ZK ns.	3
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
	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differenti		divergence)
and curl (rotation). Fu	nction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, f	ubini theorem. Tr	ansformation
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 po	tential 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 vecto	field through a	surface. The
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
· ·	romagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec	-	
	tter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	· -	
	r. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 exper		
2021041	Physics I.	Z,ZK	7
	mics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro		
	hanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Con		
insulators. Magnetic	field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.	t measurements	, regression,
2026046	· · · · · · · · · · · · · · · · · · ·	Z	
2026016	Physics - Seminar The publicat is mainly most for high school students for repetition of high school physics	۷	2
2024044	The subject is mainly meant for high-school students for repetition of high-school physics.	71/	1 2
202A041	Physics I. mics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	ZK	3
	mics of a particle motion. Principle of conservation of energy. System of particles, centre of mass, Rigid body, Continuum, etastic pro hanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Col		
	field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirec		
modiatoro. Magnotio	measurements of 11 various experiments related to the lectures.	, mododromonic	, rogrocolori,
2041061	English-Bachelor Exam	Z.ZK	2
	ן ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	,	1
mapped to the comm	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	oo, to take parti	. 4.00400.01.0
2041062	German - Bachelor Exam / FME	Z,ZK	2
	ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	•	1
.,,	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041063	French - Bachelor Exam /FME	Z,ZK	2
	ion European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult		
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	•	
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
Mapped to the Comm	on European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	es, to take part ir	discussions
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Comm	on European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	es, to take part ir	discussions
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2046068	English - Beginners	Z	2
	oulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p		
2046069	English - Beginners	Z	2
Mapped to the Comm	non European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic	expressions
	of general scientific terminology (professional language).		
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 them.\(\frac{1}{2} \)	Writing in a simp	e way about
0040074	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	7	
2046071	English - Lower Intermediate	Z	2
	mon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s me and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvemen		
		Z	
2046072	English - Upper Intermediate	-	2
THE AITH IS TO EXTERIOR	anguage skills taking into consideration professional English and common professional terminology. Comprehension of standard English about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -		CONVENSATION
2046073		Z	2
	English - Upper Intermediate		
	hension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedia		
	knowledge.		.5 g. a. i i i i i
2046074	English - Advanced	Z	2
	nsion of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter		I
· · · · · · · · · · · · · · · · · · ·	a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field		
	Grammar structures on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
ı	nmon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in Eng	lish without grea	1
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 comprehen	sion of popular-s	cientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046076	German - Beginners	Z	2
2046076	Comman Boginnoro	_	_

2046077			
	German - Beginners	Z	2
Mapped to the lev	vel Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an	d use of basic exp	essions of
	general scientific terminology (professional language).		
2046078	German - Lower Intermediate Course	Z	2
Aim: Understandir	ng 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.		
2046079	German - Lower Intermediate Course	Z	2
Mapped to the leve	el 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 fre	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemer	nt of professional la	inguage.
2046080	German - Upper Intermediate Course	Z	2
Understanding st	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe 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	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	nes across at work,	at school,
during free time, a	nd talking about these topics. Ability to describe experiences and events, explain one´s opinions and plans. Reading and understandii	ng general and tecl	hnical texts.
2046082	German - Advanced Course	Z	2
Comprehension	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participatio	n 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 a	and technical article	es.
2046083	German - Advanced Course	Z	2
Mapped to the leve	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge	erman without grea	t difficulties
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe	nsion of popular-so	eientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046084	French - Beginners	Z	2
Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way at	out familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046085	French - Beginners' Course	Z	2
Mapped to the lev	vel of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	chool 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.
2046086	French - Lower Intermediate Course	Z	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	in a simple way ab	out familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	vel of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	chool or in
	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046088	French - Upper Intermediate	7	2
	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	
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	·	
2046089			
	French - Upper Intermediate	Z	2
	French - Upper Intermediate vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	. – ,	
Mapped to the lev	French - Upper Intermediate vel 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 understandin	nes across at work,	at school,
Mapped to the lev	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	nes across at work,	at school,
Mapped to the level during free time, a 2046090	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come not talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced	nes across at work, ng general and tecl	at school, hnical texts.
Mapped to the leaduring free time, a 2046090 Comprehension	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students coming talking about these topics. Ability to describe experiences and events, explain one s opinions and plans. Reading and understanding	nes across at work, ng general and tecl Z n in discussions. Ex	at school, hnical texts. 2 pressing
Mapped to the let during free time, a 2046090 Comprehension opinions.	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one sopinions and plans. Reading and understanding French - Advanced of spoken language as well as lectures in French 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	nes across at work, ng general and tecl Z n in discussions. Ex	at school, hnical texts. 2 pressing es.
Mapped to the let during free time, a 2046090 Comprehensior opinions. 2046091	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one sopinions and plans. Reading and understanding French - Advanced of spoken language as well as lectures in French 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 French - Advanced	nes across at work, ng general and tecl Z n in discussions. Ex and technical article	at school, hnical texts. 2 pressing es. 2
Mapped to the leduring free time, a 2046090 Comprehension opinions. 2046091 Mapped to the	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced of spoken language as well as lectures in French 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 at French - Advanced level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on topics.	nes across at work, ng general and tecl Z n in discussions. Ex and technical article Z pics familiar to the	at school, hnical texts. 2 pressing es. 2 student.
Mapped to the leduring free time, a 2046090 Comprehension opinions. 2046091 Mapped to the	vel 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 French - Advanced of spoken language as well as lectures in French 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 French - Advanced level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to the native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts.	nes across at work, ng general and tecl Z n in discussions. Ex and technical article Z pics familiar to the	at school, hnical texts. 2 pressing es. 2 student.
Mapped to the let during free time, a 2046090 Comprehensior opinions. 2046091 Mapped to the Communication wi	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding French - Advanced of spoken language as well as lectures in French 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 French - Advanced level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to the 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.	nes across at work, ng general and tecl Z n in discussions. Exand technical article Z pics familiar to the inderstanding texts	at school, hnical texts. 2 pressing es. 2 student. concerning
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2046125	Czech Lower Intermediate	Z	2
Aim: Understanding	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	e way about
2046426	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	Z	2
2046126	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	1	1
7 iiii. Oridorstanding	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	writing in a simple	c way about
2046127	Czech - Upper Intermediate	Z	2
	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe exper	1
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz		
terminology. Comp	prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broa	dening the
2040425	knowledge technical language.	Z	
2046135	Russian - Beginners bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	2
2046136	Russian - Beginners	7	2
	Russian - Degriniers I of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	_	_
	of general scientific terminology (professional language)		
2046137	Russian - Lower Intermediate Course	Z	2
Jnderstanding clear	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way a	about familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
• •	of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stude		
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	·	<u> </u>
2046139	Russian - Upper Intermediate	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 exper	riences and
2046140	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z	2
	Russian - Upper Intermediate el of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me	_	-
	ig about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding		_
		nu deneral and led	
2046141			
2046141 Comprehension of	Russian - Advanced of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation	Z	2
Comprehension of	Russian - Advanced	Z on in discussions. E	2 Expressing
Comprehension of	Russian - Advanced of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation	Z on in discussions. E	2 Expressing
Comprehension of opinions. W	Russian - Advanced of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation Vitten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	Z on in discussions. E and technical artic	2 Expressing cles.
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0444004					
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4		
	ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, t		-		
Analogue and	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines	s. Synchronous ma	chines.		
04.44000	DC-machines	7.71/	_		
2144062	Technical Indonesian - Course II.	Z,ZK	3		
2146060	Basic of Indonesian Language for Student Exchange Program to Indonesia	7	2		
2146060	Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2		
2146061	Technical Indonesian - Course I.	Z	2		
2140001	Second part of Indonesian Language for Student Exchange Program to Indonesia				
2182019		KZ	3		
	Chemistry y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties	I	_		
	n, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biocher				
, , , , , , , , , , , , , , , , , , ,	oriented upon the material properties measurement.				
2311004	Mechanics for Technology	Z,ZK	7		
2321039	Materials Science II.	Z,ZK	4		
	etallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the		· ·		
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi				
2321067	Technical Application of Materials	Z,ZK	5		
	plikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend		The subject		
describ	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.			
2322029	Materials Science I.	KZ	3		
History and prese	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrystalliz	zation and		
fracture of mate	rials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	ron-carbon phase o	diagram.		
2322091	Project	KZ	2		
	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	ı evaluating the studi	ed literature		
with particular er	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	r evaluate hitherto	obtained		
	knowledge or results.				
2331071	Automation of Production Processes	Z,ZK	5		
Automation of basic	etechnological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizat	ion and automation	n in iron and		
steel foundries. Au	utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De	esigning and progr	amming of		
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.				
2332091	Project	KZ	2		
2342005	Quality Control	KZ	2		
Basic quality contro	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statist	ical process contro	l, statistical		
sam	pling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.			
2342091	Project	KZ	2		
2342091	Project Work on specialized tasks.		2		
2342091 2372041			3		
2372041	Work on specialized tasks.	KZ KZ	3		
2372041 The course introduc	Work on specialized tasks. Computer Support for Study	KZ KZ the use of compute	3 rs. Students		
2372041 The course introduc	Work on specialized tasks. Computer Support for Study ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t	KZ KZ the use of compute	3 rs. Students		
2372041 The course introduc gain practica 2381002	Work on specialized tasks. Computer Support for Study ces students into creating technical and professional documents on computers or Web and into realizing technical computations with tall skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and the computations with a spreadsheet calculator.	KZ KZ the use of compute ical-based WWW p Z,ZK	3 rs. Students page.		
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stress is laid on understanding the dichotomy as the basis of the double entry accounting system, which distinguishes the terms assets (in the long term and short term) and liabilities (share-holders? equity, liabilities). Of great importance is the assessing of assets and their parts. Ac-counting relates to other information subsystems as budgeting, cost accounting, short term and long term planning. There are further some other subjects concerning enterprise manage-ment, connected with accounting, especially in the field of financial management. Accounting is one of the fundamental instrument of a business manager who understands the content and structure of the balance sheet, profit and loss account and the cash/flow statement. It is very possible that some of the students will exploit the knowledge of accounting in their future occupation as managers, financial directors, in consulting firms and auditing companies. 2381514 Z,ZK Project management 2381712 Managerial Counting Z.ZK 4 The course is oriented to project management approach. During the course are solved cases that respond to practical situations. The cases are stressed on cost-returns calculations, on the solving interactions among costs, capacity of resources and the price. And also on the calculation typical kinds of variations and their explanation and the selection of the appropriate managerial decision. The students are concerning on the right way of operational budget creation and assessment. The link on the internal company accounting is shown and explain. The computerized models are used by explanation. 2382048 Statistical and Decision Analysis K7 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 decision analysis, to create models for the management of industrial enterprises. 2382091 ΚZ Specialization Project 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 2383008 Managerial Psychology 2 2383102 Personnel Management Ζ 2 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 satisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the human resources of organizations. 2383993 **Bachelor Thesis** Work on specialized tasks related to the focus of a thesis. K331068 Z,ZK Technology I 5 Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,

heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.

K333038 Fundamentals of Technology I. Z 3

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

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