Study plan

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

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Manufacturing and Economy in Mechanical Engineering

Type of study: Bachelor full-time

Required credits: 182
Elective courses credits: -1
Sum of credits in the plan: 181
Note on the plan: první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 171

The role of the block: P

Code of the group: 12B*P*P-TV

Name of the group: 07 2012 bakalá ský t locvik

Requirement credits in the group: In this group you have to gain 3 credits

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

Credits in the group: 3

Note on the group: Letní výcvikový kurz je předmět povinný. Student jej může vykonat kdykoliv v průběhu studia,

avšak v souladu s příslušnými ustanoveními Ústavu tělesné výchovy a sportu ČVUT

Code of the group: 12B*P*P-ZT21

Name of the group: 04 2012 prezen ní ZT v po adí 21

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

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

Credits in the group: 6 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2333038	Fundamentals of Technology I. Marie Kola iková	Z	3	1P+1C	*	Р

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

2333038	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:	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. R	Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame							
welding and arc welding	with coated electrodes. Thermal cutting.							

Code of the group: 12B-KMEN* VES

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

Requirement courses in the group: In this group you have to complete 11 courses

Credits in the group: 50 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna, Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Lucie Pilsová, Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2132001	Engineering Design I. Karel Petr	KZ	2	1P+2C	1	Р
2131002	Engineering Design II Martin Dub, Jan Flek, Martin Havlí ek, Jan Kanaval, Karel Petr, Marek Štádler, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р
General chemistry from the phase equilibrium, chemical	emistry point of view of mechanical and process engineering. Physical chemistry forms 2/3 of treactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hy			perties of m		•
Kinematics and dynamics of waves. Fluid mechanics. Tem insulators. Magnetic field. Ma	roperties measurement. ysics I. a particle motion. Principle of conservation of energy. System of particles, centre of managements and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, cuagnetic materials. Laboratories - accuracy of measurements, systematic and random es experiments related to the lectures.	ırrent, conductivit	y, resistance	astic proper e. Conductor	rs, semicondu	ctors,
2011021 Co	Instructive Geometry cometric objects in the space - curves, surfaces and solids and their properties and mu	ıtual relations		Z	Z,ZK	6
2011056 Ma In the course, greater empha will also get to know the proce	athematics I asis is placed on the theoretical basis of the concepts discussed and on the derivation address for solving problems with parametric input. In addition, students will gain extended al, integral as a limit function, integration of some special functions.	of basic relations	•	nnections b		
2011062 Ma Open and closed set, bound and curl (rotation). Function g of integrals to polar, cylindric	ary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradien given implicitly. Local and global (= absolute) extremes of a function of more variables. Do cal and spherical coordinates. A simple smooth curve and line integral of a scalar and variategral on the path. Simple smooth surface and surface integral of a scalar function a	uble integral, volur vector function. Ci	me (=triple) i rculation an	ifferential op ntegral, Fub d Green's th	ini theorem. Tr neorem. A pot	ansformation ential vector
	aterials Science I.				KZ	3
	materials engineering, overview of technical materials, internal structure of metals, cry				-	
	re and properties of materials and their testing, fundamentals of thermodynamics, pha	ses and phase tra	anstormation			
	mputer Graphics				KZ Z	3
	imputer Support for Study nts into creating technical and professional documents on computers or Web and into r	ealizing technical	computation		KZ	3 ers Students
	ng an essay in a text editor, by realizing technical computations with a spreadsheet ca					o.o. Oludenio
	gineering Design I.	, ,	3		KZ	2
· ·	ation, dimensioning and tolerancing			1	- 1	_

Code of the group: 12BVP3P

2131002

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

Engineering Design II

History of Technology

Basic of technical representation, dimensioning and tolerancing

Requirement credits in the group: In this group you have to gain 31 credits

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.

Developement of human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is given upon new branches of technology with special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the narrower sense of the word.

Z,ZK

4

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 31

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р
2311004	Mechanics for Technology	Z,ZK	7	4P+2C	*	Р
2321039	Materials Science II. Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Jan Walter, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Stanislav Krum Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
2331068	Technology I. Jan Kudlá ek	Z,ZK	5	2P+2C	*	Р
2121023	Thermodynamics	Z,ZK	5	3P+2C	*	Р

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

2021025	Physics II.	Z,ZK	4		
Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction					
of radiation with matter.	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. I	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments related	d 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 metal	urgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	nd thermo-mechar	nical processing,		
technical iron-carbon al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.				
2331068 Technology I. Z,ZK 5					
Foundry properties of m	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. Col	neating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatments.				

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.

Z,ZK

Code of the group: 12BVP4P

Thermodynamics

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

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

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

Credits in the group: 22 Note on the group:

2121023

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
2341014	Technology II. Pavel Novák	Z,ZK	5	2P+0C+2L	*	Р

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

2381075	Enterprise Management and Economics	Z,ZK	5			
2383102 Personnel Management			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 sa	tisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the h	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						
sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.						

2341014

Technology II. mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes

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

programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.

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

Credits in the group: 11 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2131519	Machine Elements for Technology Martin Dub, Martin Havlí ek, Jan Kanaval, Eliška Cézová, Zden k ešpíro, František Lopot, Roman Uhlí, Ji í Houkal, Ond ej Što ek František Lopot František Lopot (Gar.)	Z,ZK	5	2P+3C	*	Р
2381068	Cost Accounting Theodor Beran, Ladislav Vaniš Theodor Beran Theodor Beran (Gar.)	Z,ZK	5	2P+2C	*	Р
2141204	Introduction to Electrical Engineering for Technology Jan Chyský, Lubomír Musálek, Martin Novák Lubomír Musálek Jan Chyský (Gar.)	Z,ZK	4	2P+0C+2L	*	Р
2383001	Fundamentals of Law 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.

Introduction to Electrical Engineering for Technology

Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines

Fundamentals of Law

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

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

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

Requirement credits in the group: In this group you have to gain 17 credits

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

Credits in the group: 17

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2332038	Surface Treatment Technology Viktor Kreibich, Ji í Kucha Ji í Kucha Viktor Kreibich (Gar.)	KZ	4	1P+2C	*	Р
2331505	Welding Technology Ladislav Kola ík, Marie Kola íková, Pavel Rohan Ladislav Kola ík Ladislav Kola ík (Gar.)	Z,ZK	4	2P+1C	*	Р
2322041	Heat treatment Jana Sobotová, Martin Ku ík Jana Sobotová Jana Sobotová (Gar.)	KZ	4	2P+1C	*	Р

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

2332038	Surface Treatment Technology	K7	4

TPU The course is an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution and its species. TPU focuses on corrosion protection in engineering and other industries. Are reconstructed surface preparation processes (mechanical). Among the discussed technologies finishes include coating technologies (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ecological aspects, Technological design and testing in the field of surface treatment.

2331505	Welding Technology	Z,ZK	4			
2322041	Heat treatment	KZ	4			
Theoretical fundamenta	Theoretical fundamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion focused on the given topic					

Code of the group: 12BV*6P

Name of the group: 15 2012 BVES 6.sem povinné

Requirement credits in the group: In this group you have to gain 9 credits

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

Credits in the group: 9 Note on the group:

Code	members)	Completion	Credits	Scope	Semester	Role
2331071	Tutors, authors and guarantors (gar.) Automation of Production Processes Viktor Kreibich, Ji í Kucha , Ladislav Kola ík, Jaroslav ervený, Aleš Herman, 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 finan-cial 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,

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: 12BVP6P-TVA

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

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

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

Credits in the group: 22 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2333993	Bachelor Thesis Viktor Kreibich, Ji í Kucha, Ladislav Kola ík, Marie Kola íková, Pavel Rohan, Jaroslav ervený, Aleš Herman, František Tatí ek, Jan Suchánek, Ladislav Kola ík Aleš Herman (Gar.)	Z	5	0P+6C	*	Р
2332056	Preparations and Tools František Tatí ek	KZ	3	0P+3C	*	Р
2331065	Design Consideration Bohumír Bedná	Z,ZK	5	3P+1C	*	Р
2331506	Casting and Forming Technology Aleš Herman, František Tatí ek František Tatí ek Aleš Herman (Gar.)	Z,ZK	5	3P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVP6P-TVA Name=16 2012 BVES 6.sem zam TVA prez povinné

2333993	Bachelor Thesis	Z	5				
2332056	Preparations and Tools	KZ	3				
Principles of selection of	Principles of selection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production processes for forgings.						
Accuracy, stock materia	I, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production pro	cesses for weldme	ents. Operational				
sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping.							
2331065	Design Consideration	Z,ZK	5				
Relations between design, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembly techniques. Basis for material							

Relations between design, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembly techniques. Basis for material and production technology selection. Component detailing for manufacture. CNC basis and using CNC.

2331506 Casting and Forming Technology

Z,ZK

5

Principles of selection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production processes for forgings, extrusion. Accuracy, stock material, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 11

The role of the block: PV

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

Name of the group: 03 2012 bakalá ské povinn volitelné humanitární

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 6)

Requirement courses in the group: In this group you have to complete at least 1 course (at most 3)

Credits in the group: 2

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2383019	Philosophical Issues Of Individual and Science	Z	2	1P+1C	*	PV
2383009	Communication and Dealing with People Jan Horejc Jan Horejc (Gar.)	Z	2	1P+1C	*	PV
2383008	Managerial Psychology	Z	2	1P+1C	*	PV

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

2383019 Philosophical Issues Of Individual and Science			2			
2383009	Z	2				
Human communication	Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to					
the activities of manage	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.					
2383008	Managerial Psychology	Z	2			

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

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

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

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

Credits in the group: 2 Note on the group:

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

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

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

2041065 Russian - Bachelor Exam / FME Z,ZK 2

Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.

2041064 Spanish - Bachelor Exam / FME Z,ZK 2

Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.

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

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

Requirement credits in the group: In this group you have to gain at least 5 credits (at most 10)

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

Credits in the group: 5 Note on the group:

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

onal action control of the group of charge frame control in a control of the group of charge frame control of the group of the group of charge frame control of the group of the gro									
2321067	Technical Application of Materials	Z,ZK	5						
P edm t popisuje aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto skupin. The subject									
describes applicability	describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.								
2381002	Fundamentals of Economics	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 1povvol oborové projekty

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 8)

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

Credits in the group: 2 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Jakub Horváth, Stanislav Krum	KZ	2	0P+2C	*	PV
2382091	Specialization Project Ladislav Vaniš, Barbora Stieberová, Vladimír Brdek František Freiberg	KZ	2	0P+2C	*	PV
2332091	Project Viktor Kreibich, Ji í Kucha , Ladislav Kola ík, Marie Kola íková, Pavel Rohan, Tomáš Gur ík, Jaroslav ervený, Aleš Herman, František Tatí ek, 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	KZ	2	0P+2C	*	PV

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

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

knowledge or results.	knowledge or results.						
2382091	Specialization Project	KZ	2				
2332091	Project	KZ	2				
2342091	Project	KZ	2				
Work on specialized ta	Work on specialized tasks.						

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

The role of the block: V

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

Name of the group: 02 2012 ALFA volitelné pro VES

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

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
202A041	Physics I.	ZK	3	0P+0L	*	V
201A021	Constructive Geometry A Ivana Linkeová	ZK	3	0P+0C	*	V
201A056	Mathematics I.A Radka Keslerová	ZK	4	0P+0C	*	V
201A062	Mathematics II.A Radka Keslerová	ZK	4	0P+0C	*	٧

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, 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 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	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 r	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:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
2046155	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046068	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Voleiníková. 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	Z	2	0P+2C	L	V
2046117	Jaroslava Kommová 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	
	Jaroslava Kommová					
2046119	Czech Language for Beginners I. Jaroslava Kommová Czech Language for Beginners II.	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046090	French - Advanced Eliška Vítková, Michaela Schusová, Dušana Jirovská 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 Eliška Vítková, Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046085	French - Beginners' Course Michaela Schusová, Dušana Jirovská Michaela Schusová 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 Eliška Vitková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046083	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z	2	0P+2C	L	V
2046082	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela	Z	2	0P+2C	Z	V
2046077	Schusová Michaela Schusová (Gar.) German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046161	Presentations in English Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	*	V
2046166	Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Petr Laurich (Gar.)	Z	2	0P+2C	*	V
2046162	Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Eliška Vítková (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Eliška Vítková, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046163	Presentations in French language Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská 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 Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	٧
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez	Z	2	0P+2C	L	V
	Thayonez Valle And And Vinagonia		L	1		

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

2046155	English Conversation	Z	2			
Improving communicati	ve skills in speaking on general topics and general technical topics.					
2046156	English Conversation	Z	2			
Improving communicati	Improving communicative skills in speaking on general topics and general technical topics.					
2046071	English - Lower Intermediate	Z	2			
Mapped to the Common European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a student meets either at school						

Mapped to the Common European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a student meets either at schoo or at 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.

English - Lower Intermediate Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about to familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2. 2046074	ritten and oral skills field of studies witho	2 on advanced out difficulties.
familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2. 2046074	ritten and oral skills field of studies witho	2 on advanced out difficulties.
English - Advanced The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. W level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's Grammar structures on advanced level. B1 - B2. English - Advanced Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comp scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standardout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	ritten and oral skills field of studies witho Z n English without gre rehension of popular	on advanced out difficulties.
The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. W level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's Grammar structures on advanced level. B1 - B2. 2046075	ritten and oral skills field of studies witho Z n English without gre rehension of popular	on advanced out difficulties.
level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's Grammar structures on advanced level. B1 - B2. 2046075	field of studies witho	out difficulties.
Grammar structures on advanced level. B1 - B2. 2046075 English - Advanced Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comp scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046072 English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standardout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	Z n English without gre rehension of popular	2
English - Advanced Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comp scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046072 English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standardout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	n English without gre rehension of popular	_
Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in an active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and composcientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046072 English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standardout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	n English without gre rehension of popular	_
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comp scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046072 English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standardout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	rehension of popular	at unitculties
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046072 English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standardout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	Z	r-scientific and
2046072 English - Upper Intermediate The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standarabout topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		
The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standa about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		2
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	ard English speech a	_
2046073 English - Upper Intermediate	3	
	Z	2
Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional E	Inglish and common	n professional
terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on inte	rmediate level. Broad	dening gramma
knowledge.		
2046068 English - Beginners	Z	2
Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology	(professional langua	age). A1
2046069 English - Beginners	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Underst	anding and use of ba	asic expression:
of general scientific terminology (professional language).		
2046126 Czech Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about t	hem. Writing in a sin	nple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046125 Czech Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about t	hem. Writing in a sin	nple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046118 Czech -Advanced	Z	2
Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	ı Czech without grea	at difficulties and
active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe	ension of popular-sc	ientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046117 Czech -Advanced	Z	2
Comprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation	in discussions. Expr	essing opinions
Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical	articles.	
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. At	oility to describe expe	eriences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128 Czech - Upper Intermediate	Z	2
Mapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professior	al Czech and comm	non professiona
terminology. Comprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on int	ermediate level. Broa	adening the
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 (prof	essional language)	
2046120 Czech Language for Beginners II.	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Underst	anding and use of ba	asic expressions
of general scientific terminology (professional language).		
2046086 French - Lower Intermediate Course	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V	Vriting in a simple wa	ay about familia
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 which		
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	nt of professional lan	
2046091 French - Advanced	Z	2
	•	
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on	and understanding t	exts concerning
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading	and understanding t	
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Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles. 2046090 French - Advanced Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participat opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and 2046089 French - Upper Intermediate Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students	Z tion in discussions. E technical articles.	expressing 2 ork, at school,
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles. 2046090 French - Advanced Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participat opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and 2046089 French - Upper Intermediate Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding standard speech about familiar topics.	Z tion in discussions. E technical articles.	Expressing 2 ork, at school, d technical texts
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dapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles. O46090 French - Advanced comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participar pinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and 1046089 French - Upper Intermediate	z tion in discussions. E technical articles. Z comes across at wo standing general and Z billity to describe experience.	2 ork, at school, d technical texts 2 eriences and

2046085 Mapped to the level o	French Paginners' Course	Z	2
mapped to the level o	French - Beginners´ Course Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	_	
his/her free time and	speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of		
2146060	Indonesian Language Course for Exchange	Z	2
Basic of Indonesian L	anguage for Student Exchange Program to Indonesia	ı	
2146061	Technical Indonesian - Course I.	Z	2
Second part of Indone	sian Language for Student Exchange Program to Indonesia	<u>'</u>	
2144062	Technical Indonesian - Course II.	Z,ZK	3
Basic of Indonesian L	anguage for Student Exchange Program to Indonesia	·	
2046078	German - Lower Intermediate Course	Z	2
	early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sin	nple way about
	g and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which		
	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemen	7	
2046083	German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in	- 1	2
	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre		-
• •	kts from student's field of studies without difficulties. Grammar structures on advanced level.	monoion or popul	ar coloritino ario
2046082	German - Advanced Course	Z	2
	pken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	_	_
	. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and ted		
2046081	German - Upper Intermediate Course	Z	2
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co		
during free time, and	alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understal	nding general and	d technical texts
2046080	German - Upper Intermediate Course	Z	2
_	rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit	y to describe exp	eriences and
	one's opinions and plans. Reading and understanding general and technical texts.	7	
2046076	German - Beginners	Z	2
	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess		
2046077	German - Beginners ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding a	Z	2
	inology (professional language).	and use of basic t	expressions or
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.	۱ ۲	2
2046166	Presentations in Czech	Z	2
	give presentations in English on technical topics, with a possible co-operation with specialized departments.	- 1	_
2046162	Presentations in German	Z	2
	ting technical topics in German, possibly in cooperation with specialized departments.	_ '	_
2046164	Presentations in Russian	Z	2
Preparation for presen	ting technical topics in Russian, possibly in cooperation with specialized departments.	'	
2046163	Presentations in French language	_	2
2010100	1 Toochtations in 1 Tohon language	Z	_
	ting technical topics in French, possibly in cooperation with specialized departments.	Ζ	
		Z	2
Preparation for preser 2046165	ting technical topics in French, possibly in cooperation with specialized departments.	Z	
Preparation for present 2046165 Preparation for present	ting technical topics in French, possibly in cooperation with specialized departments. Presentations in Spanish		
Preparation for presert 2046165 Preparation for presert 2046137 Understanding clearly	ting technical topics in French, possibly in cooperation with specialized departments. Presentations in Spanish ting technical topics in Spanish, possibly in cooperation with specialized departments. Russian - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writerian in the speaking about them.	Z	2
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2046099	Spanish - Lower Intermediate	Z	2			
Mapped to the level of C	Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stu	dent meets at sch	iool 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.						
2046098	Spanish - Lower Intermediate	Z	2			
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familia						
topics. Reading and con	topics. Reading and comprehension of simple texts. Improvement of professional language.					
2046096	Spanish - Beginners	Z	2			
Aim:Understanding clea	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sim	nple way about			
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language.					
2046097	Spanish - Beginners	Z	2			
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in						
his/her free time and sp	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	of professional lar	iguage.			

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		
2011056	Mathematics I	Z,ZK	8
	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection		
will also get to know	v the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: e	gennumbers and e	eigenvecto
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		_
2011062	Matematika II.	Z,ZK	8
-	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different		_
	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, ir, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer		
	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	•	
noia, maoponaon	Gauss-Ostrogradskij theorem.	i noid anough a o	ariaoo. 1110
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
201A021	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation		3
201A056	Mathematics I.A	ZK	4
2017030	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable	ZΙ	-
201A062	Mathematics II.A	ZK	4
Open and closed and curl (rotation). For integrals to polarity	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, ir, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	al operators div (d Fubini theorem. Tra I's theorem. A pote	ivergence insformation
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Open and closed and curl (rotation). For integrals to pola field, independent 2021025 Faraday's law of ele of radiation with m Spectra, x-rays, ;lat 2021041 Kinematics and dyr waves. Fluid me insulators. Magneti 2026016 202A041 Kinematics and dyr waves. Fluid me insulators. Magneti 202A041 Kinematics and dyr waves. Fluid me insulators. Magneti 2041061 Mapped to the Com	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, ir, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem. Physics II. actromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic inductions. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expe Physics I. namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of a particle materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire measurements of 11 various experiments related to the lectures. Physics I. namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of a particle motion. Principle of conservation of energy. System of particles, centr	al operators div (de- tubini theorem. Tra t's theorem. A poter r field through a ser Z,ZK tromagnetic waves periodic system of iments related to the Z,ZK perties of bodies. Inductors, semiconct transurements, Z ZK perties of bodies. Inductors, semiconct transurements, tran	ivergence insformation and instance in the lecture of elements the lecture of ductors, regression ductors,

2041063 Mapped to the Com	French - Bachelor Exam /FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul	Z,ZK ties, to take part in o	2 discussions,
0044004	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	7 714	
2041064 Mapped to the Com	Spanish - Bachelor Exam / FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	Z,ZK ties, to take part in o	2 discussions,
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ties, to take part in o	discussions,
2046068	English - Beginners	Z	2
2046069	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (property of everyday life in a written and spoken form. Understanding and use of basic expressions of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. The everyday life is a written and spoken form. Understanding and use of basic expressions of everyday life in a written and spoken form. The everyday life is a written and the everyday life is	7	2
	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	l
0040070	of general scientific terminology (professional language).	T	
2046070 Aim: Understandin	English - 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.	Z Writing in a simple	2 way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046071	English - Lower Intermediate	Z	2
	nmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a time and speaking about them. Writing in a simple way about familiar topics, reading and comprehension of simple texts. Improveme		
2046072	English - Upper Intermediate	Z	2
The aim is to extend	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard En		onversation
2046072	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2	- B1. 	
2046073 Mapped to the Co	English - Upper Intermediate mmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli	_	2 rofessional
	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediknowledge.	•	
2046074	English - Advanced	Z	2
	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writte te 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
	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in En	-	
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	ision of popular-sc	lentine and
2046076	German - Beginners	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	
2046077 Mapped to the leve	German - Beginners el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an general scientific terminology (professional language).	d use of basic expr	2 ressions of
2046078	German - Lower Intermediate Course	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. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		way about
2046079	German - Lower Intermediate Course	Z	2
	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemen		
2046080	German - Upper Intermediate Course	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
2046094	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z	2
2046081 Mapped to the lev	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students con		l
during free time, an	d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi	ng general and tec	hnical texts.
2046082	German - Advanced Course	Z	2
	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participatio Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046083	German - Advanced Course	Z	2
	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Go	_	
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 comprehe scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	nsion of popular-so	nentific and
2046084	French - Beginners	Z	2
Understanding clea	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	in a simple way at	oout familiar
2046085	French - Beginners´ Course	Z	2
	el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a le and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046086	French - Lower Intermediate Course	Z	2
	topics. Reading and comprehension of simple texts. Improvement of professional language.	_	
2046087	French - Lower Intermediate Course	Z	2
	el of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a le and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
1113/1161 1166 1111	ιο από οροακτής αυσάς αποτή, έντασης τη α οιτήριο γιαν αυσάς ιαπιπίας τυρίου, περαίπη απά υθπιντεπείπουση οι οππίνε τέχιο, ππίντυνεπιεπί	. טו פוטוטטטוטוומו ומוי	guuyo.

2046088 Understanding sta	French - Upper Intermediate	Z	2				
Understanding sta	• • •		l				
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.							
2046089	French - Upper Intermediate	Z	2				
Mapped to the leve	l of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	nes across at work,	, at scho	ool,			
during free time, an	d talking about these topics. Ability to describe experiences and events, explain one´s opinions and plans. Reading and understandi	ng general and tec	hnical te	exts.			
2046090	French - Advanced	Z	2	.			
Comprehension	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatior	i in discussions. Ex	rpressing	g			
	ritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a			-			
2046091	French - Advanced	7	2				
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	. – .					
• • •	native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u						
Communication with	currant issues and popular scientific and technical articles.	nacistanding texts	CONCCII	·····9			
2040000		7	_				
2046096	Spanish - Beginners	Z	2				
Aim:Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	vvriting in a simple	way abo	out			
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.						
2046097	Spanish - Beginners	Z	2	.			
Mapped to the Co	mmon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at so	chool or i	in			
his/her free tim	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	nguage.				
2046098	Spanish - Lower Intermediate	Z	2				
Understanding clea	ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way al	bout fam	niliar			
· ·	topics. Reading and comprehension of simple texts. Improvement of professional language.						
2046099	Spanish - Lower Intermediate	Z	2				
	of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer						
	d speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p			/IIEI			
2046117	Czech -Advanced	Z	2				
•	poken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis	•	ng opinio	ons.			
Writte	n skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.					
2046118	Czech -Advanced	Z	2	.			
Mapped to the level	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	ch without great diff	ficulties	and			
active participation	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	ion of popular-scie	ntific and	nd			
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.						
2046119	Czech Language for Beginners I.	Z	2				
	oulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	l				
2046120	Czech Language for Beginners II.	7	2				
	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic.	l				
mapped to the Com		J and use of basic t	expressi	10115			
2242425	of general scientific terminology (professional language).						
2046125	Czech Lower Intermediate	Z	2				
Aim: Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way ab	out			
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.						
2046126	Czech Lower Intermediate	Z	2	.			
Aim: Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way abo	out			
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.						
2046127	Czech - Upper Intermediate						
		Z	2				
Understanding sta	· ·	. – .	2 ences ar				
Understanding sta	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	. – .					
	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to describe experie	ences ar	nd			
2046128	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate	to describe experie	ences ar	nd			
2046128 Mapped to the Com	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	to describe experience to describe experience Z	ences ar	nd onal			
2046128 Mapped to the Com	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Czorehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	to describe experience to describe experience Z	ences ar	nd onal			
2046128 Mapped to the Com terminology. Com	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermining knowledge technical language.	to describe experience and common prediate level. Broad	ences ar 2 profession dening th	onal ne			
2046128 Mapped to the Com terminology. Com	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interming knowledge technical language. Russian - Beginners	Z ech and common pediate level. Broad	ences are 2 profession the 2 2	onal ne			
2046128 Mapped to the Com terminology. Com	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermining knowledge technical language.	Z ech and common pediate level. Broad	ences are 2 profession the 2 2	onal ne			
2046128 Mapped to the Com terminology. Com	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interming knowledge technical language. Russian - Beginners	Z ech and common pediate level. Broad	ences are 2 profession the 2 2	onal ne			
2046128 Mapped to the Comterminology. Com 2046135 Basic voca 2046136	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermining knowledge technical language. Russian - Beginners pullary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	to describe experience and common prediate level. Broad	2 profession dening the 2 ge) 2	onal ne			
2046128 Mapped to the Comterminology. Com 2046135 Basic voca 2046136	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermining knowledge technical language. Russian - Beginners Russian - Beginners	to describe experience and common prediate level. Broad	2 profession the dening the denin	onal ne			
2046128 Mapped to the Comterminology. Com 2046135 Basic voca 2046136 Mapped to the leve	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermination in the standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermination in the standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermination in the standard Czech speech and conversation about topics of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language)	to describe experience Z ech and common prediate level. Broad Z erofessional languar Z and use of basic e	2 profession 2 ge) 2 expression	onal ne ons			
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2046142	Russian - Advanced	Z	2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to h native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	•	
Communication with	currant issues and popular scientific and technical articles.	macrotanianig toxto	concorning
2046155	English Conversation	Z	2
_0.0.00	Improving communicative skills in speaking on general topics and general technical topics.	_	_
2046156	English Conversation Improving communicative skills in speaking on general topics and general technical topics.	Z	2
2046161	Presentations in English	Z	2
2046462	Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.	Z	2
2046162	Presentations in German Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.		
2046163	Presentations in French language Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	Z	2
2046164	Presentations in Russian Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	Z	2
2046165	Presentations in Spanish Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	Z	2
2046166	Presentations in Czech	Z	2
2040100	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department		_
2121023	Thermodynamics	Z,ZK	5
	th a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Bas		inciples are
introduced, and the	y are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with a	an emphasis on psy	chometrics.
Heat transfer cov	ers 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.		
2131002	Engineering Design II	Z,ZK	4
	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	-	
	ps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the		
2131005	History of Technology	ZK	3
· ·	human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is		
	special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the r		
2131519	Machine Elements for Technology	Z,ZK	5
2132001	Engineering Design I. Basic of technical representation, dimensioning and tolerancing	KZ	2
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
Elements of electr	ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, t	hyristors,operation	amplifiers.
Analogue and	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines DC-machines	s. Synchronous ma	chines.
2144062	Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia	Z,ZK	3
2146060	Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2146061	Technical Indonesian - Course I.	Z	2
	Second part of Indonesian Language for Student Exchange Program to Indonesia	1	
2182019	Chemistry	KZ	3
	y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		
phase equilibriun	n, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemical reactions are remained to the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemical reactions.	mistry. Laboratory į	oractice is
2244004	oriented upon the material properties measurement.	7 71/	7
2311004	Mechanics for Technology	Z,ZK	7
2321039	Materials Science II. letallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the	Z,ZK	4
i unuamentais oi n	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi		processing,
2321067	Technical Application of Materials	Z,ZK	5
	plikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým treno		_
	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these		THO OUDJOOL
2322029	Materials Science I.	KZ	3
	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	1 .	_
	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, in		
2322041	Heat treatment	KZ	4
	undamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion for	1	
2322091	Project	KZ	
	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	1 1	
	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o knowledge or results.	=	
2331065	Design Consideration	Z,ZK	5
	n design, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembly t	1 ' 1	
0001055	and production technology selection. Component detailing for manufacture. CNC basis and using CNC.		
2331068	Technology I.	Z,ZK	5
rounary properties	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatment		nı-products,

2331071	Automation of Production Processes	Z,ZK	5
	c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizati utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De		
Steel louridites. A	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.	signing and progr	amming or
2331505	Welding Technology	Z,ZK	4
			-
2331506	Casting and Forming Technology ion of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production pr	Z,ZK	5
-	material, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic mould		-
Accuracy, Stock	production of a casting, forging or a stamping.	iligs. Ilidividuai pi	Ojecis ioi
2332038	Surface Treatment Technology	KZ	4
	an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution		1
	ction in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discussed	•	
-	es (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ed	-	
	design and testing in the field of surface treatment.		
2332056	Preparations and Tools	KZ	3
Principles of se	lection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Produc	ion processes for	forgings.
Accuracy, stock ma	aterial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production process	ses for weldments.	Operational
	sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping	j .	
2332091	Project	KZ	2
2333038	Fundamentals of Technology I.	Z	3
	sses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technology		ction of pig
iron and steel. Ca	sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology.	nology. Hot and c	old forging.
Free and drop for	orging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welcomes.	ling. Fusion weldir	ng: Flame
	welding and arc welding with coated electrodes. Thermal cutting.		
2333993	Bachelor Thesis	Z	5
2341014	Technology II.	Z,ZK	5
mechanics of chip	formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining econor	nics. Automation o	f processes,
	programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.		
2342005	Quality Control	KZ	2
	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical	-	ol, statistical
	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co		1
2342091	Project	KZ	2
	Work on specialized tasks.		ı
2372041	Computer Support for Study	KZ	3
	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with the		
	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni		
2381002	Fundamentals of Economics	Z,ZK	5
	used on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating	_	_
	d macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different mark		
2381068	Cost Accounting	Z,ZK	5
	sents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge nents (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). E		
	hole - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budget		
	ms) into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also mode	-	-
	unting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate		_
•	with the market price and finding out as their profitability, so their acceptability or unacceptability manufacturing program.		
2381075	Enterprise Management and Economics	Z,ZK	5
2381098	Enterprise Finance	Z,ZK	4
	ing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders		1
-	application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and	-	-
statements and th	eir role in the development of future plans for a business and in the assessing the impact of management decision on the performance	e and position of a	a busi-ness,
factors which must	be taken into account when managing the working capital of a business, various aspects of financing the business through external a	and internal source	es of finance
	a business, ways how business can make decision and evaluation involv-ing investments in new technology, and various aspects of r	nergers and takeo	vers.
2382048	Statistical and Decision Analysis	KZ	4
Statistical analysi	s 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	l method, to apply	models of
	decision analysis, to create models for the management of industrial enterprises.		1
2382091	Specialization Project	KZ	2
2383001	Fundamentals of Law	Z	2
	n legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid		_
-	ources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is no	' - '	
-	ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.		
eads students to k	now some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation	ships and to make	them ready
	to prepare professional presentations and to understand basic structures between law and engineering		
000000	Managerial Psychology	Z	2
2383008			
2383009	Communication and Dealing with People	Z	2
2383009	Communication and Dealing with People cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (v		ı
2383009	Communication and Dealing with People		ı

2383102 Personnel Management Z 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.

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-03-29, time 09:23.