## Study plan

### Name of study plan: 13 80 85 00 DVES EKO 2012 P

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: 115
Elective courses credits: 66
Sum of credits in the plan: 181

Note on the plan: SP12DVES-MUSTR # SP12BVES-EKO-P # první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 106

The role of the block: P

Code of the group: 12BVP4P

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

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

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

Credits in the group: 22 Note on the group:

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	Z	2			
Personnel / human re	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	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.					
2342005	Quality Control	KZ	2			
Basic quality control	erms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta	tistical process c	ontrol, 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.	Z,ZK	5			
mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes,						
programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.						

Code of the group: 12BV\*5P

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

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

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

Credits in the group: 11 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2131519	Machine Elements for Technology Martin Dub, Eliška Cézová, Zden k ešpiro, Martin Havlí ek, Ji í Houkal, Jan Kanaval, František Lopot, Ond ej Što ek, Roman Uhlí František Lopot František Lopot (Gar.)	Z,ZK	5	2P+3C	*	Р
2381068	Cost Accounting Theodor Beran, Ladislav Vaniš Theodor Beran Theodor Beran (Gar.)	Z,ZK	5	2P+2C	*	Р
2141204	Introduction to Electrical Engineering for Technology Jan Chyský, Lubomír Musálek, Martin Novák Lubomír Musálek Jan Chyský (Gar.)	Z,ZK	4	2P+0C+2L	*	Р
2383001	Fundamentals of Law Václav Pilík Václav Pilík (Gar.)	Z	2	1P+1C	*	Р

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

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

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

2141204 Introduction to Electrical Engineering for Technology

7.7K

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

2383001 Fundamentals of Law

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

Code of the group: 12BV\*5P-EKO

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

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

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

Credits in the group: 18 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2381514	Project management	Z,ZK	4	2P+2C	*	Р
2381059	Industrial Marketing Št pánka Uli ná Št pánka Uli ná (Gar.)	Z,ZK	5	3P+1C	*	Р
2381504	Accounting Theodor Beran Theodor Beran (Gar.)	Z,ZK	4	2P+2C	*	Р

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

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

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

Code of the group: 12BV\*6P

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

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

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

Credits in the group: 9 Note on the group:

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

Characteristics of the courses of this group of Study Plan: Code=12BV\*6P Name=15 2012 BVES 6.sem povinné

2331071 Automation of Production Processes

Automation of Production Processes

Automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation in iron and steel foundries. Automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.

2381098 Enterprise Finance Z,ZK 4

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

2382048 Statistical and Decision Analysis KZ 4

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

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

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

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

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

Credits in the group: 21 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2383993	Bachelor Thesis Ladislav Vaniš, Barbora Stieberová, Jan Lhota František Freiberg František Freiberg (Gar.)	Z	5	0P+6C	*	Р
2381712	Managerial Counting Miroslav Žilka	Z,ZK	4	2P+2C	*	Р
2381174	Enterprise Information Systems Vladimír Brdek	Z,ZK	4	2P+2C	*	Р
2381107	Engineering Ergonomy Ladislav Vaniš Jan Horeic (Gar.)	Z,ZK	4	2P+2C	*	Р

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

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

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

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

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

Code of the group: 12DVP1P-KMEN

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

2182019

12B\*\*1P-KMEN #

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2383008	Managerial Psychology	Z	2	1P+1C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2132001	Engineering Design I. Karel Petr	KZ	2	1P+2C	1	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р

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

Characteristics of the courses of this group of Study Plan: Code=12DVP1P-KMEN Name=00 2012 D kmenové 1. semestr VES prezen ní

2011021	Constitutive decinetry	,_r\	1		
The subject is focused of	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.				
2383008	Managerial Psychology	Z	2		
2011056	Mathematics I	Z,ZK	8		
In the course, greater e	mphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connec	tions between co	ncents Students		

In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. Students will also get to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvectors of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.

2372041	Computer Support for Study	KZ	3	
The course introduces s	tudents into creating technical and professional documents on computers or Web and into realizing technical computations w	ith the use of com	puters. Students	
gain practical skills by c	reating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical	-hased WWW nag	ne l	

g p	,							
2132001	Engineering Design I.	KZ	2					
Basic of technical repre	Basic of technical representation, dimensioning and tolerancing							
2131005	History of Technology	ZK	3					
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								

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.

Code of the group: 12DVP2P-KMEN

Chemistry

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

Requirement credits in the group: In this group you have to gain 25 credits

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

Credits in the group: 25

Note on the group:

12B\*\*2P-KMEN #

Note on the g	10up.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Lucie Pilsová, Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka <b>Ivana Linkeová</b>	KZ	3	1P+1C	*	Р
2333017	Surface Treatment  Jan Kudlá ek	Z	3	1P+1C	*	Р
2131002	Engineering Design II  Martin Dub, Martin Havlí ek, Jan Kanaval, Jan Flek, Karel Petr, Marek Štádler, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р

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

#### Characteristics of the courses of this group of Study Plan: Code=12DVP2P-KMEN Name=00 2012 D kmenové 2. semestr VES prezen ní

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.

Matematika II. Z,ZK

Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence) and curl (rotation), Function given implicitly, Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, Fubini theorem, Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

2322029 Materials Science I.

History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, deformation, recrystallization and fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iron-carbon phase diagram.

2012037 ΚZ 3 Computer Graphics 2333017 Surface Treatment

Introduction to the surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive prevention in manufacturing, method anticorrosive prevention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. Organic coatings. Ecological aspects of surface treatments

2131002 **Engineering Design II** 

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

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

Code of the group: 12DVP3P-KMEN

Fundamentals of Technology I.

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

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

Credits in the group: 0

Note on the group:

2333038

12BV\*3P-KMEN-R #

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=12DVP3P-KMEN Name=00 2012 D kmenové 3. semestr redukované pro VES prezen ní

2021025 Z.ZK Physics II. Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements. Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures.

2011009 Mathematics III 5 Z,ZK An introductory course in ordinary differential equation and infinite series. 2311004 Mechanics for Technology Z,ZK 7 4 2321039 Z,ZK Materials Science II.

Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and ther technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.

2331068 Technology I. Z,ZK 5
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,

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

2121023 Thermodynamics

Z,ZK

K 5 cepts and principles are

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

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 9

The role of the block: PV

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

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

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

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

Credits in the group: 2

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam Michele Le Blanc, Eliška Vitková, 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

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

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

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

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

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

Credits in the group: 5 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2321067	Technical Application of Materials Stanislav Krum	Z,ZK	5	3P+1C	*	PV
2381002	Fundamentals of Economics Theodor, Beran, Theodor, Beran, (Gar.)	Z,ZK	5	2P+2C	*	PV

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

2321067 Technical Application of Materials

P edm t popisuje aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto skupin. The subject describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.

2381002 Fundamentals of Economics

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

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

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

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

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

Credits in the group: 2 Note on the group:

9						
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 Jaroslav ervený, Aleš Herman, Ladislav Kola ík, Viktor Kreibich, Ji í Kucha, František Tatí ek, Bohumír Bedná, Barbora Bryksí Stunová, Jan ermák, Ladislav Kola ík Aleš Herman (Gar.)	KZ	2	0P+2C	*	PV
2342091	Project Vladislav Andronov, Libor Beránek, František Holešovský, Tomáš Kellner, Michal Koptiš, Ji í Kyncl, Martin Kyncl, Jan Mádl, Petr Mikeš, Pavel Novák	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	NZ							
On the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature									
with particular emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate hitherto obtained									
knowledge or results.									

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

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

The role of the block: V

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

Name of the group: 02 2012 ALFA volitelné pro VES

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

Credits in the group: 0 Note on the group:

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

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

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

202A041   1 11y3103 1.
(inematics 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,
vaves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors,
nsulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression,
neasurements of 11 various experiments related to the lectures.

201A021	Constructive Geometry A	ZK	3		
The subject is focused	he subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.				
201A056	Mathematics I.A	ZK	4		
Introduction to linear al	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable				
201A062	Mathematics II.A	ZK	4		

Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence) and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, Fubini theorem. Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

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

Dhysics I

Name of the group: 05 2012 doporu ené seminá e

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

Credits in the group: 0

Note on the group:

2024041

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

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

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

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

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

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

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

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

Credits in the group: 0 Note on the group:

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

2046074	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate  Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub,  Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate  Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub,  Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046068	English - Beginners  Eliška Vitková, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika  Kratochvílová <b>Michaela Schusová</b> Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced	Z	2	0P+2C	Z	V
2046127	Jaroslava Kommová  Czech - Upper Intermediate	Z	2	0P+2C	Z	V
2046128	Jaroslava Kommová  Czech - Upper Intermediate	Z	2	0P+2C	L	V
2046119	Jaroslava Kommová  Czech Language for Beginners I.	Z	2	0P+2C	Z	V
2046120	Jaroslava Kommová  Czech Language for Beginners II.	 	2	0P+2C		V
2046086	Jaroslava Kommová  French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela	Z	2	0P+2C	Z	V
2046087	Schusová (Gar.) French - Lower Intermediate Course	Z	2	0P+2C	L	V
2046091	Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> French - Advanced		2	0P+2C	L	V
2046090	Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> French - Advanced  Eliška Vítková, Michaela Schusová, Dušana Jirovská <b>Eliška Vítková</b> Eliška	Z	2	0P+2C	Z	V
2046089	Vítková (Gar.)  French - Upper Intermediate	Z	2	0P+2C	L	V
2046088	Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> French - Upper Intermediate	7	2	0P+2C	Z	.,,
2046088	Eliška Vítková, Michaela Schusová, Dušana Jirovská <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	UP+2C		V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046085	French - Beginners´ Course Michaela Schusová, Dušana Jirovská Michaela Schusová (Gar.)  Schusová (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course  Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046083	German - Advanced Course  Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich  Jaroslava Kommová	Z	2	0P+2C	L	V
2046082	German - Advanced Course  Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela  Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V

2046076	German - Beginners  Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela  Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046161	Presentations in English Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	*	V
2046166	Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich <b>Jaroslava Kommová</b> Petr Laurich (Gar.)	Z	2	0P+2C	*	V
2046162	Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Eliška Vítková (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046163	Presentations in French language Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046135	Russian - Beginners Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez	Z	2	0P+2C	L	V

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

2046155 | English Conversation | 7 | 2

2046155	English Conversation	<sub> </sub> Z	2
Improving communic	ative skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communic	ative skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
Mapped to the Comm	non European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets	either at school
or at his/her free time	and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of profession	al language.
2046070	English - Lower Intermediate	Z	2
Aim: Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a si	mple way about
familiar topics. Readi	ng and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehen	sion of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	ten and oral skills	on advanced
level. Ability to write a	a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	ld of studies with	out difficulties.
Grammar structures	on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Comm	non European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	inglish without gr	eat difficulties
and active participati	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprel	hension of popula	ar-scientific and
scientific articles or to	exts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072	English - Upper Intermediate	Z	2
The aim is to extend I	anguage skills taking into consideration professional English and common professional terminology. Comprehension of standard	I English speech	and conversation
about topics of every	day life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		

2046073	Forestate. Una production and state	7 7	
	English - Upper Intermediate n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Er	nglish and common	2 professional
	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interi		
knowledge.			g g
2046068	English - Beginners	Z	2
Aim: Basic vocabulary	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (	professional langua	ge). A1
2046069	English - Beginners	Z	2
' '	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa	nding and use of ba	sic expressions
	ninology (professional language).		
2046126	Czech Lower Intermediate	Z	2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	iem. Writing in a sim	iple way about
2046125	and comprehension of simple texts. Improvement of professional language.	Z	2
!	Czech Lower Intermediate  arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about th	_	
	and comprehension of simple texts. Improvement of professional language.	ioni. Whiting in a sin	ipic way about
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	1	
active participation in	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension	nsion of popular-sci	entific and
scientific articles or te	s from student's field of studies without difficulties. Grammar structures on advanced level.		
2046117	Czech -Advanced	Z	2
	ten language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in		essing opinions
	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a		
2046127	Czech - Upper Intermediate	Z	2
_	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abi ne´s opinions and plans. Reading and understanding general and technical texts.	lility to describe expe	eriences and
2046128	Czech - Upper Intermediate	Z	2
	Оzectr - Opper intermediate n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professiona	1	
' '	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inte		-
knowledge technical la			<b>3</b> · ·
2046119	Czech Language for Beginners I.	Z	2
Basic vocabulary of ev	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	ssional language)	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Commo	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa	nding and use of ba	sic expressions
	ninology (professional language).		
2046086	French - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	riting in a simple wa	ay about familia
-	mprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations whicl Beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046091	French - Advanced	Z	2
	ן ו פרופון - Advarteed Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to		_
' '	tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a	-	
	ular scientific and technical articles.		
2046090	French - Advanced	Z	2
Comprehension of spo	ven language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	on in discussions. E	xpressing
opinions. Written skills	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.	
2046089	French - Upper Intermediate	7	2
		Z	
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students of	comes across at wo	
<u> </u>	lking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst	comes across at wo	technical texts
2046088	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst French - Upper Intermediate	comes across at wo	technical texts
2046088 Understanding standa	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst French - Upper Intermediate dispects about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abi	comes across at wo	technical texts
2046088 Understanding standa events, briefly explain	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst French - Upper Intermediate dispeech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abiline's opinions and plans. Reading and understanding general and technical texts.	comes across at wo tanding general and Z	technical texts 2 eriences and
2046088 Understanding standa events, briefly explain 2046084	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst French - Upper Intermediate dispeech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abiline's opinions and plans. Reading and understanding general and technical texts.  French - Beginners	comes across at wo tanding general and Z lility to describe expe	technical texts 2 eriences and 2
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2046088 Understanding standa events, briefly explain 2046084 Understanding clearly topics. Reading and co	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst French - Upper Intermediate d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abine's opinions and plans. Reading and understanding general and technical texts.  French - Beginners what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. We mprehension of simple texts. Improvement of professional language.	comes across at wo tanding general and Z Z Illity to describe experience Z Z Irriting in a simple wa	technical texts 2 eriences and 2 ay about familia
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Preparation for presenting technical topics in Spanish , possibly in cooperation with specialized departments.    Preparation for presenting technical topics in Spanish , possibly in cooperation with specialized departments.   2   2	Preparation for present		1	
Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.  2 de16165   Presentations in Spanish   Z 2 2 2 2 2 2 2 2 2 3 2 3 2 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2046163	Presentations in French language	Z	2
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.    Russian - Lower Interrmediate Course   Z   2	Preparation for present	,	1	
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.    Validation   Russian - Lower Intermediate Course   Validation   Validation	2046165	Presentations in Spanish	Z	2
Understanding dearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar optics. Reading and comprehension of simple texts. Improvement of professional languages.  2046138   Russian - Lower Intermediate Course  Mapped to the level of Common European Framework of Reference: A2 Understanding glearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046141   Russian - Advanced   Russian - Advanced   Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Writen skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.  2046142   Russian - Advanced   Z   2   2   2   2   2   2   2   2   2	Preparation for present	•	1	
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Tree time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.    Russian - Advanced	2046138	Russian - Lower Intermediate Course	Z	2
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Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.  2 2 2 Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Russian - Beginners  Russian - Ruswirten form. Un	free time and speaking	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	ssional language.	
popinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.    2	2046141	Russian - Advanced	Z	2
Russian - Advanced  Russian - Advanced  Russian - Advanced  Rusped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Russian - Beginners  Russian - Rus				Expressing
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	Aim:Understanding clear familiar topics. Reading 2046097	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language.  Spanish - Beginners	m. Writing in a sim	nple way about

# List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III  An introductory course in ordinary differential equation and infinite series.	Z,ZK	5
2011021	Constructive Geometry  The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relat	Z,ZK	6
2011056	Mathematics I	Z,ZK	8
	Infatrier Haucs is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	1	_
will also get to know	v the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas:	eigennumbers and e	eigenvectors
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
•	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differen Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral		,
	ar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree		
	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector function. Flow of a vector function and a vector function. Flow of a vector function and a vector function.	· · · · · · · · · · · · · · · · · · ·	
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relatives.		·
201A056	Mathematics I.A  Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable	ZK	4
201A062	Mathematics II.A	ZK	4
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differen	1	divergence)
and curl (rotation).	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral	, Fubini theorem. Tra	ansformation
of integrals to pola	ar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree	en's theorem. A pote	ential vector
field, independen	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vect	or field through a s	urface. The
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
=	ectromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of ele	-	
	natter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and		
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiences.		
2021041	Physics I.	Z,ZK	7
waves. Fluid m	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pr echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. C tic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indir	onductors, semicor	nductors,
	measurements of 11 various experiments related to the lectures.		
2026016	Physics - Seminar	Z	2
	The subject is mainly meant for high-school students for repetition of high-school physics.	T	
202A041	Physics I.	ZK	3
waves. Fluid m	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pr echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. C tic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indir	onductors, semicor	nductors,
insulators. Magne	measurements of 11 various experiments related to the lectures.	cot measurements,	regression,
2041061	English-Bachelor Exam	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficu		I
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2041062	German - Bachelor Exam / FME	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficuto write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	1 '	I
2041063	French - Bachelor Exam /FME	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficuto to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	1 '	1
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficu	1	1
mapped to the con-	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	inioo, to tano partin	4.00400.0.10,
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Con	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficu to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	llties, to take part in	discussions,
2046068	English - Beginners	Z	2
Aim: Basic voo	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology	(professional langua	age). A1
2046069	English - Beginners	Z	2
Mapped to the Cor	mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	ng and use of basic	expressions
	of general scientific terminology (professional language).		

			_
2046070	English - Lower Intermediate	Z	2
Aim: Understandin	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	writing in a simple	way about
2046071	English - Lower Intermediate	Z	2
	mmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s	student meets eithe	
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	nt of professional l	anguage.
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
2040072	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -  English - Upper Intermediate	· в1. Z	
2046073	ا التحقيق الت	_	2 ofessional
	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedia	=	
	knowledge.		
2046074	English - Advanced	Z	2
	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter		
level. Ability to wri	ite 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.	of studies without	difficulties.
2046075	English - Advanced	Z	2
	pommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in Eng	_	
	pation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher		
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046076	German - Beginners	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p		
2046077	German - Beginners	Z	2
iviapped to the lev	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding angeneral scientific terminology (professional language).	d use of basic expi	ressions of
2046078	German - Lower Intermediate Course	7	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
* *	of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a		
	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemen	nt of professional la	
2046080	German - Upper Intermediate Course andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experi	2
Understanding sta		to describe experie	ences and
	events, prietiv explain one's opinions and plans. Reading and understanding general and technical texts.		
2046081	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  German - Upper Intermediate Course	Z	2
2046081 Mapped to the lev	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  German - Upper Intermediate Course  rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com-		2 at school,
Mapped to the lev	German - Upper Intermediate Course	es across at work,	at school,
Mapped to the lev during free time, ar 2046082	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com rel talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandir  German - Advanced Course	nes across at work, ng general and tecl	at school, hnical texts.
Mapped to the lev during free time, ar 2046082 Comprehension of	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com rel talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandin  German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	nes across at work, ng general and tecl  Z n in discussions. E	at school, hnical texts. 2 xpressing
Mapped to the lev during free time, an 2046082 Comprehension opinions. \	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	nes across at work, ang general and tecl Z In in discussions. Exand technical article	at school, hnical texts. 2 xpressing es.
Mapped to the lev during free time, ar 2046082 Comprehension opinions. V 2046083	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a German - Advanced Course	nes across at work, and general and tech in discussions. Earl technical article	at school, hnical texts. 2 xpressing es. 2
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2046006	Cooriel Paginners	Z	2
2046096 Aim:Understandir	Spanish - Beginners  ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.		
7	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		nay about
2046097	Spanish - Beginners	Z	2
Mapped to the C	Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at so	chool or in
his/her free tir	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	guage.
2046098	Spanish - Lower Intermediate	Z	2
Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way at	oout familiar
0040000	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	Z Z	2
	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of particles and speaking about them.		
2046117	Czech -Advanced	7	2
	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis	ı — — I cussions. Expressii	
	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t		
2046118	Czech -Advanced	Z	2
1	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	_	
active participat	ion in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	ion of popular-scie	ntific and
0040440	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	7	0
2046119	Czech Language for Beginners I. abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	Z rofessional langua	2
2046120	Czech Language for Beginners II.	7	2
	mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	∠ g and use of basic	
	of general scientific terminology (professional language).	g	
2046125	Czech Lower Intermediate	Z	2
Aim: Understandir	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046126	Czech Lower Intermediate	Z	2
Aim: Understandir	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
2040427	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	7	
2046127	Czech - Upper Intermediate tandard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experi	2
Onderstanding si	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to describe experie	ences and
2046128	Czech - Upper Intermediate	7	2
	mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	ech and common p	_
1	mprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	•	
	knowledge technical language.		
2046135	Russian - 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	
2046136	Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basis of	2
Mapped to the lev	of general scientific terminology (professional language)	and use of basic e	xpressions
2046137	Russian - Lower Intermediate Course	Z	2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	1	
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
	el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stude		
	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	orofessional langua	
2046139	Russian - Upper Intermediate	Z	2
Understanding st	tandard 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
2046140	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z	2
2046140	Russian - Upper Intermediate vel of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me	1	2 not during
1	ing about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding		_
2046141	Russian - Advanced	Z	2
1	of spoken language as well as lectures in Russian 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		
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	-	
Communication wi	th native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	inderstanding texts	concerning
2046455	currant issues and popular scientific and technical articles.  English Conversation	7	2
2046155	English Conversation  Improving communicative skills in speaking on general topics and general technical topics.	Z	2
2046156	English Conversation	Z	2
2070130	Improving communicative skills in speaking on general topics and general technical topics.	1 - 1	_
2046161	Presentations in English	Z	2
	Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.	_	_
2046162	Presentations in German	Z	2
	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  Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departm	Z ents.	2
2121023	Thermodynamics	Z,ZK	5
The course deal with introduced, and they	n a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Ba are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with rs fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and	sic concepts and p an emphasis on ps	orinciples are
2131002	problems and experimental technique.  Engineering Design II	Z,ZK	4
Principles of ISO GP	'S (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface s, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	texture, geometric	al tolerance
2131005	History of Technology	ZK	3
Developement of h	numan knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is	given upon new b	ranches of
<u> </u>	pecial attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the	narrower sense of	the word.
2131519	Machine Elements for Technology	Z,ZK	5
2132001	Engineering Design I.  Basic of technical representation, dimensioning and tolerancing	KZ	2
	Introduction to Electrical Engineering for Technology cal circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, i gital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machine  DC-machines		-
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  Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2146061	Technical Indonesian - Course I.  Second part of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2182019	Chemistry	KZ	3
=	from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioche oriented upon the material properties measurement.		-
2311004	Mechanics for Technology	Z,ZK	7
2321039	Materials Science II.	Z,ZK	4
Fundamentals of me	etallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and t technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of mater		l processing
2321067	Technical Application of Materials	Z,ZK	5
	likovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým tren es applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	=	-
2322029	Materials Science I.	KZ	3
l l	nt state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defo	1	1
fracture of mater	ials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, i		diagram.
· ·	Project  oreliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and or superimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or superimental technologies which can be applied in their bachelor theses.	_	
2331068	knowledge or results.	7 71/	5
	Technology I.  f metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forn heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatmen	٠.	I
2331071	Automation of Production Processes technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechaniza	Z,ZK	5 on in iron and
	tomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. D robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		
2332091	Project	KZ	2
2333017	Surface Treatment	Z	3
	surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive prevent ntion. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing aspects of surface treatments.		-
iron and steel. Cast Free and drop for 2341014	Fundamentals of Technology I.  es in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, tech ing: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tec ging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of wel welding and arc welding with coated electrodes. Thermal cutting.  Technology II.	hnology. Hot and coding. Fusion weldi	cold forging. ng: Flame
mechanics of chip for	rmation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining econo programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.	mics. Automation o	of processes

2342005	Quality Control	KZ	2
Basic quality contro	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statisti pling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	cal process contro	
			2
2342091	Project   Work on specialized tasks.	KZ	2
2372041	Computer Support for Study	KZ	3
	es students into creating technical and professional documents on computers or Web and into realizing technical computations with t	l l	_
	Il skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technic	· · · · · · · · · · · · · · · · · · ·	
2381002	Fundamentals of Economics	Z,ZK	5
	sed on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating	, ,	
	I macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different mark		٠ ا
2381059	Industrial Marketing	Z,ZK	5
2381068	Cost Accounting	Z,ZK	5
1	ents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge	· .	
	ents (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). E		
	nole - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budgeti	=	
	ns) into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also model		· I
subject Cost Accou	nting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate	products, which are	e compared
	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
	ng of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders		n con-cepts
and their practical a	pplication in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and p	ourpose of projecte	ed finan-cial
statements and the	ir role in the development of future plans for a business and in the assessing the impact of management decision on the performanc	e and position of 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	s of finance
available to a	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.
2381107	Engineering Ergonomy	Z,ZK	4
The aim of the subje	ect engineering ergonomics is to become acquainted with the problems, constraints and the optimal solution of the fundamental unit of	an enterprise or o	rganization,
i.e. with system	- man - technology (machine) - environment. The character of the subject is going out from the anthropocentric principle, i. e. that ev	ery system MTE a	s in the
manufacturing, ma	naging, technological, designing so in other spheres it is important unambiguously to accommodate them to the possibilities, abilities	and skills of the w	eakest link
414 (- 4- 41			
=	n man. The students will learn not only to start from the man?s limitations during the designing of the MTE system, but also evaluate	-	
the system and des	ign rationalization measures for its optimization. The mission of the subject is that the students will be able in their work on all levels of	of economic sphere	es to ensure
the system and des	ign rationalization measures for its optimization. The mission of the subject is that the students will be able in their work on all levels or gor themselves and for the users of the designed systems as well as for their subordinates. The not-excludable output is also the he	of economic sphere	es to ensure
the system and des the optimal wellbein	ign rationalization measures for its optimization. The mission of the subject is that the students will be able in their work on all levels or gor themselves and for the users of the designed systems as well as for their subordinates. The not-excludable output is also the he and productivity of labour.	of economic sphere ealth of man and hi	es to ensure gher quality
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Bachelor Thesis

Work on specialized tasks related to the focus of a thesis.

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