Study plan

Name of study plan: 15 80 85 00 DVES OBR 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 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	e satisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the l	human resources	of organizations					
2342005	Quality Control	KZ	2					
Basic quality contro	I terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta	itistical process co	ontrol, statistical					
sampling. Tools and	methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control system	ns.						
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 ma	nufacture. 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 ešpíro, 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

Z,ZK

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-OBR

Name of the group: 14 2012 BVES 5.sem zam OBR 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
2342032	Automation of machine tool programming Pavel Novák	KZ	3	1P+2C	*	Р
2341515	Manufacturing process planning Ji í Kyncl Pavel Novák	Z,ZK	4	2P+2C	*	Р
2341001	Metrology Libor Beránek, Petr Mikeš Pavel Novák	Z,ZK	5	2P+0C+2L	*	Р

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

2342032	Automation of machine tool programming	KZ	3					
Utilizations of computer technique for preparation of NC programs for lathe and milling machinery. Utilizations of probes on CNC machine tool.								
2341515	Manufacturing process planning	Z,ZK	4					
Objective of the course in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and methodology of designing machining								
processes with regard t	o minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the	designing of asse	mbly processes					
with respect to technical	I and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard t	the type of proc	ess and the type					
of performed activity.								
2341001	Metrology	Z,ZK	5					
Metrology, intergration into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondary standarts. Measurement								
in 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness.								
Measurement automati	Measurement automatisation.							

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 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-OBR

Name of the group: 16 2012 BVES 6.sem zam OBR 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
2343993	Bachelor thesis Pavel Novák	Z	5	0P+6C	*	Р
2341002	Cutting tools Pavel Novák	Z,ZK	4	2P+1C	*	Р
2341068	Special machining technology Jan Mádl	Z,ZK	5	3P+2C	*	Р
2381107	Engineering Ergonomy Ladislav Vaniš Jan Horejc (Gar.)	Z,ZK	4	2P+2C	*	Р

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

2343993 | Bachelor thesis

Sources of information in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Principles of research and work in laboratories. The principles of work safety in technological devices. Work on specialized tasks related to the focus of a thesis.

2341002 Cutting tools Z.ZK 4

Cutting tools characteristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination and measurement. Cutting tools elements design. Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, milling tools, etc.). Special cutting tools. Grinding, use and maintenance of cutting tools.

2341068 Special machining technology Z,ZK 5

Development of cutting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, engineering economics and ecology. Influence of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics, grinding difficult-materials. Expert, adaptive and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finishing methods. Technology in the aerospace industries, automotive, energy and other areas.

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: 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

2182019	Chemistry	KZ	3
General chemistry t	rom the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properti	es of matter, therm	nodynamics,
phase equilibrium,	chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laborator	y practice is
oriented upon the n	aterial properties measurement.		
2011021	Constructive Geometry	Z,ZK	6
The subject is focus	ed on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
2383008	Managerial Psychology	Z	2
2011056	Mathamatica	7 71/	8
2011030	Mathematics I	Z,ZK	0
	remphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connec	, , ,	•
In the course, great		ctions between con	cepts. Students
In the course, great will also get to know	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connec	ctions between con	cepts. Students
In the course, great will also get to know	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area	ctions between con	cepts. Students
In the course, great will also get to know of a matrix, Taylor p 2372041	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area olynomial, integral as a limit function, integration of some special functions.	etions between con as: eigennumbers a	ncepts. Students and eigenvectors
In the course, great will also get to know of a matrix, Taylor p 2372041 The course introduc	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area olynomial, integral as a limit function, integration of some special functions. Computer Support for Study	kZ ith the use of comp	acepts. Students and eigenvectors 3 puters. Students
In the course, great will also get to know of a matrix, Taylor p 2372041 The course introduc	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area olynomial, integral as a limit function, integration of some special functions. Computer Support for Study es students into creating technical and professional documents on computers or Web and into realizing technical computations we	kZ ith the use of comp	acepts. Students and eigenvectors 3 puters. Students
In the course, great will also get to know of a matrix, Taylor p 2372041 The course introduc gain practical skills 2132001	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area olynomial, integral as a limit function, integration of some special functions. Computer Support for Study es students into creating technical and professional documents on computers or Web and into realizing technical computations we by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical	tions between considerations between considerations: eigennumbers at the KZ with the use of composed WWW pag	acepts. Students and eigenvectors 3 puters. Students
In the course, great will also get to know of a matrix, Taylor p 2372041 The course introduc gain practical skills 2132001	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area olynomial, integral as a limit function, integration of some special functions. Computer Support for Study es students into creating technical and professional documents on computers or Web and into realizing technical computations we by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I.	tions between considerations between considerations: eigennumbers at the KZ with the use of composed WWW pag	acepts. Students and eigenvectors 3 puters. Students
In the course, great will also get to know of a matrix, Taylor p 2372041 The course introduc gain practical skills 2132001 Basic of technical re 2131005	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connect the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area olynomial, integral as a limit function, integration of some special functions. Computer Support for Study es students into creating technical and professional documents on computers or Web and into realizing technical computations we by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I. expressentation, dimensioning and tolerancing	tions between consistency of the second series of t	3 puters. Students 2 3

Code of the group: 12DVP2P-KMEN

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#

Name of the course / Name of the group of courses									
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 i Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová	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

2021041 Physics I. Z,ZK 7

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

2011062 | Matematika II. | Z,ZK | 8

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

2322029 Materials Science I. KZ 3

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

2012037	Computer Graphics	KZ	3
2333017	Surface Treatment	Z	3

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

Z,ZN | 4

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

2333038 Fundamentals of Technology I.

<u>z</u> :

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

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:

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	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. 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.							
2011000	Mothomatics III	7 7V					

2011009	Mathematics III	Z,ZK	5			
An introductory course	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 metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing, technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.

2331068 Technology I. 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

The course deal with a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Basic concepts and principles are introduced, and they are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with an emphasis on psychometrics.

Heat transfer covers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and labs are devoted to practical problems and experimental technique.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 9

The role of the block: PV

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

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

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

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

Credits in the group: 2 Note on the group:

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

2041061	English-Bachelor Exam	Z,ZK	2				
Mapped to the Commo	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	ficulties, 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 Commo	n 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	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 Commo	n 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 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	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.						

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

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

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

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

Credits in the group: 5 Note on the group:

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

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

2321067 Technical Application of Materials

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

2381002 Fundamentals of Economics

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

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

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

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

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

Credits in the group: 2 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Jakub Horváth, Stanislav Krum	KZ	2	0P+2C	*	PV
2382091	Specialization Project Ladislav Vaniš, Barbora Stieberová, Vladimír Brdek František Freiberg	KZ	2	0P+2C	*	PV
2332091	Project 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 Ji í Kyncl, Tomáš Kellner, Martin Kyncl, Libor Beránek, Michal Koptiš, Petr Mikeš, Jan Šimota, Jan Urban, Vladislav Andronov, Pavel Novák	KZ	2	0P+2C	*	PV

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

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

238	82091	Specialization Project	KZ	2			
233	32091	Project	KZ	2			
234	42091	Project	KZ	2			
Wor	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

202/1041 1 11/3/63 1.		1 3 1						
Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of bod	lies. 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 ind	lirect measureme	nts, regression,						

measurements of 11 various experiments related to the lectures

ZK 3 201A021 Constructive Geometry A The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. ZK 4 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

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:

Dhyeice I

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

2

(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 m	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

Ciedita		e yı	oup
Note on	the	aro	up:

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	*	٧
2046156	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub	Z	2	0P+2C	L	٧
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 Vitková, 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 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 Dušana Jirovská French - Advanced		2	0P+2C	L	V
2046090	Michaela Schusová, Dušana Jirovská Dušana Jirovská French - Advanced Eliška Vítková, Michaela Schusová, Dušana Jirovská Eliška Vítková Eliška	Z	2	0P+2C	Z	V
2046089	Vítková (Gar.) French - Upper Intermediate	Z	2	0P+2C	L	V
2046088	Michaela Schusová, Dušana Jirovská Dušana Jirovská French - Upper Intermediate	7	2	0P+2C	Z	.,,
2046088	Eliška Vítková, Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	UP+2C		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 (Gar.) Schusová (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046083	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z	2	0P+2C	L	V
2046082	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V

	T					
2046076	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046161	Presentations in English Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	*	V
2046166	Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Petr Laurich (Gar.)	Z	2	0P+2C	*	V
2046162	Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Eliška Vítková (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046163	Presentations in French language Eliška Vítková, Dušana Jirovská 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	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

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

2046073	English - Upper Intermediate	Z	2
	ு English - Opper intermediate on European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Er	_	
* *	ension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interr	_	-
knowledge.			
2046068	English - Beginners	Z	2
	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	orofessional langua	<u> </u>
2046069	English - Beginners	Z	. 2
• • •	on European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar minology (professional language).	nding and use of ba	asic expression
2046126	Czech Lower Intermediate	Z	2
	CZech Lower Intermediate early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	_	
-	g and comprehension of simple texts. Improvement of professional language.	om. Whang in a on	iipio way abou
2046125	Czech Lower Intermediate	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	em. Writing in a sin	nple way abou
familiar topics. Readin	g and comprehension of simple texts. Improvement of professional language.		
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	-	
	a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compreher	nsion of popular-sc	ientific and
	tts from student's field of studies without difficulties. Grammar structures on advanced level.	7	
2046117	Czech -Advanced ken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	Z Z	2
	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	-	essing opinion
2046127	Czech - Upper Intermediate	Z	2
	rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abil	1	
-	one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
Mapped to the Commo	on European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional	d Czech and comm	non profession
	ension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inte	rmediate level. Bro	adening the
knowledge technical la			
2046119	Czech Language for Beginners I.	Z	2
	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	ssional language)	
2046120	Czech Language for Beginners II.		. 2
• •	on European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar minology (professional language).	nding and use of ba	asic expressio
2046086	French - Lower Intermediate Course	7	2
	FIERCIT - LOWER INTERTREGIATE COURSE what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	. – .	_
	imprehension of simple texts. Improvement of professional language.	itting in a oimple w	ay about fariiii
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	n a student meets	at school or in
his/her free time and s	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	guage.
2046091	French - Advanced	Z	2
	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	-	
	ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a	nd understanding	texts concerni
	pular scientific and technical articles.	7	
2046090 Comprehension of spe	French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatic	Z Z	2 Expressing
	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		zypiessing
2046089	French - Upper Intermediate	Z	2
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students of	_	
* *	alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa		
2046088	French - Upper Intermediate	Z	2
Understanding standa	rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abil	lity to describe exp	eriences and
events, briefly explain	one's opinions and plans. Reading and understanding general and technical texts.		
2046084	French - Beginners	Z	2
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2046085	French - Beginners' Course	Z	2
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2146061	Technical Indonesian - Course I.	Z	2
	sian Language for Student Exchange Program to Indonesia		۷
2144062	Technical Indonesian - Course II.	Z,ZK	3
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2046078	German - Lower Intermediate Course	Z	2
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	2046096 Aim:Understanding clea	Spanish - Beginners 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.	m. Writing in a sim	nple way about
	2046096 Aim:Understanding clea familiar topics. Reading 2046097	Spanish - Beginners 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 relati	Z,ZK	6
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		_
=	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas:	-	
	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,		
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree se of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relati	ZK	3
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		1
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	ial operators div (c	livergence)
and curl (rotation). F	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,	Fubini theorem. Tra	ansformation
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree be 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.		
2021025	Physics II.	Z,ZK	4
Faraday's law of ele	ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of ele	ctromagnetic waves	s. Interaction
of radiation with m	atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	l periodic system o	f elements.
Spectra, x-rays, ;las	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expe	riments related to	the lectures.
2021041	Physics I.	Z,ZK	7
waves. Fluid me	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Color field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.	onductors, semicor	ductors,
2026016	Physics - Seminar	Z	2
2020010	The subject is mainly meant for high-school students for repetition of high-school physics.	_	_
202A041	Physics I.	ZK	3
	r Trysics 1. 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. Co		
	c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.		
2041061	English-Bachelor Exam	Z,ZK	2
	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul	1 '	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
	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.	1	discussions,
2041063	French - Bachelor Exam /FME	Z,ZK	2
	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	discussions,
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul	1 '	I
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the 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	discussions,
2046068	English - Beginners	Z	2
Aim: Basic voc	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (_	age). A1
2046069 Mapped to the Com	English - Beginners mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandin	∠ g and use of basic	expressions
	of general scientific terminology (professional language).		

			r -
2046070	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.	Writing in a simple	2 way about
7 am. Onderstandi	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	withing in a simple	, way about
2046071	English - Lower Intermediate	Z	2
Mapped to the Co	mmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s	student meets eithe	er at school
	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
	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard En	_	l l
The diffice to exten	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -	- :	onvoroation
2046073	English - Upper Intermediate	Z	2
Mapped to the Co	ommon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli	sh and common pi	rofessional
terminology. Comp	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedi	ate level. Broadeni	ng grammar
	knowledge.		
2046074	English - Advanced	Z	2
	hension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	_	l l
•	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.	or ordanoo murour	a
2046075		Z	2
	English - Advanced	_	l
	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in		
and active particip	pation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and comprehen	nsion of popular-sc	entific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		ı
2046076	German - Beginners	Z	2
Basic voca	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	ge)
2046077	German - Beginners	Z	2
Mapped to the lev	rel Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an	d use of basic exp	ressions of
	general scientific terminology (professional language).	·	
2046078	German - Lower Intermediate Course	7	2
	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	
7 iiii. Oriacistariaii	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	vviiting in a simple	way about
2040070		7	2
2046079	German - Lower Intermediate Course	Z	2
	el 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. Improvement	nt of professional la	
2046080	German - Upper Intermediate Course	Z	2
Understanding st	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experi-	ences and
	events, briefly 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
		_	l
Mapped to the lev	German - Upper Intermediate Course	nes across at work,	at school,
Mapped to the lev	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	nes across at work,	at school,
Mapped to the level during free time, are 2046082	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandin German - Advanced Course	nes across at work ng general and tec Z	, at school, hnical texts.
Mapped to the level during free time, are 2046082 Comprehension	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	nes across at work ng general and tec Z n in discussions. E	, at school, hnical texts. 2 xpressing
Mapped to the level during free time, are 2046082 Comprehension opinions.	German - Upper Intermediate Course yel 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 ng general and tec Z n in discussions. E and technical articl	, at school, hnical texts. 2 xpressing es.
Mapped to the lev during free time, ar 2046082 Comprehension opinions.' 2046083	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding 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 working general and tec Z n in discussions. E and technical articl	, at school, hnical texts. 2 xpressing es. 2
Mapped to the level during free time, and 2046082 Comprehension opinions. 2046083 Mapped to the level	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation with the skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a German - Advanced Course el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German.	nes across at working general and tec Z n in discussions. E and technical articl Z erman without grea	at school, hnical texts. 2 xpressing es. 2 at difficulties
Mapped to the level during free time, and 2046082 Comprehension opinions. 2046083 Mapped to the level	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation with the skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a German - Advanced Course el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Geration in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German and comprehension of	nes across at working general and tec Z n in discussions. E and technical articl Z erman without grea	at school, hnical texts. 2 xpressing es. 2 at difficulties
Mapped to the level during free time, are 2046082 Comprehension opinions. 2046083 Mapped to the level and active particip	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common described talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding the German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation with the skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a German - Advanced Course of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German structures on advanced level.	nes across at work, ng general and tec Z n in discussions. E and technical articl Z erman without greansion of popular-so	, at school, hnical texts. 2 xpressing es. 2 at difficulties cientific and
Mapped to the level during free time, are 2046082 Comprehension opinions. 2046083 Mapped to the level and active participe 2046084	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common described experiences and events, explain one's opinions and plans. Reading and understanding 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 el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension in a discussion of texts from student's field of studies without difficulties. Grammar structures on advanced level. French - Beginners	nes across at work, ng general and tec Z n in discussions. E and technical article Z erman without greansion of popular-so	, at school, hnical texts. 2 xpressing es. 2 at difficulties cientific and
Mapped to the level during free time, are 2046082 Comprehension opinions. 2046083 Mapped to the level and active participe 2046084	German - Upper Intermediate Course vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students common described experiences and events, explain one's opinions and plans. Reading and understanding 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 el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension in a discussion in this/her free time and speaking about them. Writing arty what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	nes across at work, ng general and tec Z n in discussions. E and technical article Z erman without greansion of popular-so	, at school, hnical texts. 2 xpressing es. 2 at difficulties cientific and
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2046096	Spanish - Beginners	Z	2
Aim:Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
Mapped to the C	ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at so	hool or in
his/her free tin	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	
2046098	Spanish - Lower Intermediate	Z	2
Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way at	oout familiar
00.40000	topics. Reading and comprehension of simple texts. Improvement of professional language.	I	
2046099	Spanish - Lower Intermediate of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	Z	2
1	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of processing 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	cussions. Expressir	
· ·	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	=	3 -1
2046118	Czech -Advanced	Z	2
Mapped to the leve	el 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 participati	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	ion of popular-scie	ntific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p		
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Con	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).	g and use of basic (expressions
2046125	Czech Lower Intermediate	7	2
	Ozech Lower intermediate 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 tim. Chaolotanan	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	vviiting in a cimple	way about
2046126	Czech Lower Intermediate	Z	2
	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046127	Czech - Upper Intermediate	Z	2
Understanding st	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
I Mapped to the Cor	mmon fillodean framework of Reference Level Az-RJ. The aim is to extend language skills taking into consideration protessional Liz		
	nmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz		
	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm		
terminology. Con	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language.		ening the
terminology. Con	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broad	lening the
terminology. Con	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	nediate level. Broad	lening the
2046135 Basic voca 2046136	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners	Z rofessional langua	ening the 2 ge) 2
2046135 Basic voca 2046136 Mapped to the lev	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	Z rofessional langua	ening the 2 ge) 2
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terminology. Con 2046135 Basic voca 2046136 Mapped to the lev 2046137	Russian - Beginners el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (peneral scientific terminology (peneral scientific terminology) (professional language) Russian - Lower Intermediate Course arry what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	Z professional language Z and use of basic e	2 ge) 2 xpressions
2046135 Basic voca 2046136 Mapped to the lev 2046137 Understanding clea	Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language) Russian - Lower Intermediate Course arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	Z professional language Z and use of basic e Z g in a simple way at	ge) 2 xpressions 2 cout familiar
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terminology. Con 2046135 Basic voca 2046136 Mapped to the lev 2046137 Understanding clea	Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language) Russian - Lower Intermediate Course arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student	Z rofessional languar Z and use of basic e Z g in a simple way ab	2 ge) 2 xpressions 2 cout familiar 2 or in his/her
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2046135 Basic voca 2046136 Mapped to the lev 2046137 Understanding clea 2046138 Mapped to the leve free time a 2046139	Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language) Russian - Lower Intermediate Course arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Lower Intermediate Course el of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student	Z rofessional language Z and use of basic e Z g in a simple way at T t meets at school or of essional language Z	2 ge) 2 xpressions 2 cout familiar 2 or in his/her gge. 2
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2046163	Presentations in French language Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	Z	2
2046164	Presentations in Russian	Z	2
	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
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
2010100	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departm	1	_
2121023	Thermodynamics	Z,ZK	5
ntroduced, and they	th a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Ba y are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with ers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application.Exercises and	an emphasis on ps	ychometric
0404000	problems and experimental technique.	7.71/	1 4
2131002	Engineering Design II PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	Z,ZK	4
-	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
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 b	ranches of
	special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the	1	1
2131519	Machine Elements for Technology	Z,ZK	5
2132001	Engineering Design I.	KZ	2
2141204	Basic of technical representation, dimensioning and tolerancing	Z,ZK	4
	Introduction to Electrical Engineering for Technology ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, i		
	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines DC-machines		-
2144062	Technical Indonesian - Course II.	Z,ZK	3
04.40000	Basic of Indonesian Language for Student Exchange Program to Indonesia	_	
2146060	Indonesian Language Course for 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
	y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties n, 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
undamentals of m	letallurgy, 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		processin
2321067	Technical Application of Materials	Z,ZK	5
	i plikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým tren		1
describ	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.	
2322029	Materials Science I.	KZ	3
	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defo	-	
	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, i	· · · · · · · · · · · · · · · · · · ·	
2322091 on the basis of the	Project preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and o	KZ	2 lied literatu
	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment of knowledge or results.	-	
2331068	Technology I.	Z,ZK	5
	of 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	ning processes. Se	1
2331071	Automation of Production Processes	Z,ZK	5
utomation of basic	c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizar utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. D	tion and automatic	n in iron a
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		
2332091	Project	KZ	2
	Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive prevent rention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing aspects of surface treatments.		_
2333038	Fundamentals of Technology I.	Z	3
Production proces iron and steel. Cas	sess in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technology modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of wellowed welding and arc welding with coated electrodes. Thermal cutting.	nical metals. Produ hnology. Hot and d	uction of pi

2341001	Metrology	Z,ZK	5
	ation into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and second		
in 1, 2, end 3 c	coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structu Measurement automatisation.	re - roughness, \	vawiness.
2341002	Cutting tools	Z,ZK	4
_	aracteristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination and		-
elements design.	. Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, millin tools. Grinding, use and maintenance of cutting tools.		
2341014	Technology II.	Z,ZK	5
	of formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining econom programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.		
2341068	Special machining technology of cutting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, er	Z,ZK	5
ecology.Influence	ce of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finish	grinding difficult	-materials.
2244545	the aerospace industries, automotive, energy and other areas.	7 71/	1
2341515	Manufacturing process planning burse in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and method	Z,ZK	4
processes with re	egard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the desi chnical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the of performed activity.	gning of assemb	y processe
2342005	Quality Control	KZ	2
Basic quality cont	trol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical		ol, statistica
	ampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co		
2342032	Automation of machine tool programming Utilizations of computer technique for preparation of NC programs for lathe and milling machinery. Utilizations of probes on CNC machine.		3
2342091	Project Work on specialized tasks.	KZ	2
2343993	Bachelor thesis	Z	5
	nation in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Pri in laboratories. The principles of work safety in technological devices. Work on specialized tasks related to the focus of a thes	s.	,
2372041	Computer Support for Study	KZ	3
	uces students into creating technical and professional documents on computers or Web and into realizing technical computations with the	e use of compute	ers. Studen
gain practic	cal skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technic	al-hased W/W/W	nage
	cal skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator.		_
2381002	cal skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Fundamentals of Economics cused on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating	Z,ZK	5
2381002 The course is foo	Fundamentals of Economics	Z,ZK of the economic	5 s according
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2381002 The course is foot to so calls 2381068 The subject pre- Individual achieve of costs on the way individual cost its subject Cost According to the subject Finan and their practical statements and the actors which must available to 2381107 The aim of the subject i.e. with systemanufacturing, must that is to the given the system and define optimal wellber 2382048	Fundamentals of Economics sused on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating and macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different marks Cost Accounting sents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge ments (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). Expected costs and actual costing (actual costs). It is a cost of individual achievements and the understanding of the transformation from costs in the budgeting into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also moder ounting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject and finding out as their profitability, so their acceptability or unacceptability manufacturing program. Enterprise Management and Economics Enterprise Finance cing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and perior in decision-making. Students gain knowledge of financial management and Economics Enterprise Finance cing of the Enterprise provides a broad-based i	Z,ZK of the economic tests and competiti Z,ZK ting (expected comphasis is laid on a particular of the material	5 s according ons. 5 set), so the in the relation g structure costing. The re compare 5 4 sin con-cept ded finan-cia busi-ness es of financovers. 4 organization as in the weakest lin omic level ces to ensur higher quality.
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2381002 The course is foot to so calls 2381068 The subject prendividual achieve of costs on the vibral cost according to the subject Cost According to the subject Finant their practical statements and the actors which must available to 238107 The aim of the subject i.e. with systemanufacturing, methat is to the given e system and define optimal wellber 2382048 Statistical analys	Fundamentals of Economics sused on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating and macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different marks Cost Accounting sents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge ments (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). Expected costs and actual costing (actual costs). It is a cost of individual achievements and the understanding of the transformation from costs in the budgeting into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also moder ounting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate putting is connected directly with the subject and finding out as their profitability, so their acceptability or unacceptability manufacturing program. Enterprise Management and Economics Enterprise Finance cing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and perior in decision-making. Students gain knowledge of financial management and Economics Enterprise Finance cing of the Enterprise provides a broad-based i	Z,ZK of the economic test and competiti Z,ZK ting (expected comphasis is laid on a particular of the material	5 s according ons. 5 set), so the in the relatic g structure costing. The re compare to the first of the fir
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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 2024-05-19, time 03:20.