### Study plan

## Name of study plan: 14 80 85 00 DVES MAT 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: 116 Elective courses credits: 65 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: 107 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	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 reso	urce management is concerned with the effective management of people at work. Subject examines what can or should be	done to make peo	ple both more			
productive and more sat	tisfied 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 control ter	ms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta	tistical process co	ontrol, statistical			
sampling. Tools and me	thods 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 manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.						

Code of the group: 12BV\*5P Name of the group: 12 2012 BVES 5.sem povinné Requirement credits in the group: In this group you have to gain 11 credits Requirement courses in the group: In this group you have to complete 3 courses Credits in the group: 11 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2131519	Machine Elements for Technology Martin Dub, Eliška Cézová, Zden k 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	*	Ρ
2381068	Cost Accounting Theodor Beran, Ladislav Vaniš <b>Theodor Beran</b> Theodor Beran (Gar.)	Z,ZK	5	2P+2C	*	Ρ
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	*	Ρ

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

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. 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 comp 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 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifie 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 Z 2 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 Le 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 u 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 re to prepare professional presentations and to understand basic structures between law and engineering	2131519	Machine Elements for Technology	Z,ZK	5
individual achievements (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). Emphasis is laid on the released 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. 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 composite 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 4 Elements of electrical circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines  2383001  Fundamentals of Law 2383001  Fundamentals of Law 2383001  Coder, 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 some practical habits and processes while putting the ir professional career and to learn how to work with the collection of laws. At the same time the cours 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 related to prepare professional presentations and to understand basic structures between law and engineering	2381068	Cost Accounting	Z,ZK	5
Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifie 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 Z 2 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 Le 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 kn 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	The subject presents	an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of bud	geting (expected o	cost), so the
(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, 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 comp 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 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplified 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 Z 2 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 Le 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 kno 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	individual achieveme	nts (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual cost	ts). Emphasis is lai	id on the relatior
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 comp 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 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifie 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 Z 2 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 Lee 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 u 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	of costs on the whole	e - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budg	eting and account	ting structure
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2141204       Introduction to Electrical Engineering for Technology       Z,ZK       4         Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifie         Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines.         DC-machines         2383001       Fundamentals of Law         Basic orientation in legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provide a view into the Czech Le         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 ke 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	subject Cost Accoun	ting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separ	ate products, whic	ch are compared
Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifie 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 Z 2 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 Le 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 kn 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	with the market price	and finding out as their profitability, so their acceptability or unacceptability manufacturing program.		
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DC-machines         2383001       Fundamentals of Law       Z       2         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 Le         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 ke 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	Elements of electrica	I circuits, analysis of electrical circuits as DC and AC. EI. Power and Energy. Principle and typical parameters diodes, transistor	s, thyristors,opera	tion amplifiers.
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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 Le 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 ke 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 cours 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 re to prepare professional presentations and to understand basic structures between law and engineering	DC-machines			
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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 re to prepare professional presentations and to understand basic structures between law and engineering	Order, particular sou	rces of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It	is necessary for st	tudents to know
to prepare professional presentations and to understand basic structures between law and engineering	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 law	vs. At the same tim	ne the course
	leads students to know	w some practical habits and processes while putting the law on, especially in domain of contracts and other important legal rela	ationships and to m	nake them ready
		al presentations and to understand basic structures between law and engineering		
Code of the group: 12BV*5P-MAT	to prepare professio			
	to prepare profession			

#### Name of the group: 12BV 5P-MAT Name of the group: 14 2012 BVES 5.sem zam MAT povinné Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 18 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2341001	Metrology Libor Beránek, Petr Mikeš Pavel Novák	Z,ZK	5	2P+0C+2L	*	Р
2331505	Welding Technology Ladislav Kola ík, Marie Kola íková, Pavel Rohan Ladislav Kola ík Ladislav Kola ík (Gar.)	Z,ZK	4	2P+1C	*	Ρ
2322041	Heat treatment Jana Sobotová, Martin Ku ík Jana Sobotová Jana Sobotová (Gar.)	KZ	4	2P+1C	*	Р

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

2341001	Metrology	,∠κ	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 coordin	in 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness.						
Measurement autom	atisation.						
2331505	Welding Technology	Z,ZK	4				
2322041	Heat treatment	KZ	4				
Theoretical fundamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion focused on the given topic							

Code of the group: 12BV\*6P Name of the group: 15 2012 BVES 6.sem povinné Requirement credits in the group: In this group you have to gain 9 credits Requirement courses in the group: In this group you have to complete 2 courses Credits in the group: 9 Note on the group:

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

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

2331071 Automation of Production Processes

5 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.

Z,ZK

4

Z.ZK

**Enterprise Finance** The subject Financing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an understanding of the main con-cepts and their practical application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and purpose of projected finan-cial statements and their role in the development of future plans for a business and in the assessing the impact of management decision on the performance and position of a busi-ness, factors which must be taken into account when managing the working capital of a business, various aspects of financing the business through external 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. ΚZ

2382048 Statistical and Decision Analysis

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-MAT

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

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

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

Credits in the group: 22

#### Note on the group:

2381098

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
2323993	Bachelor Thesis Jana Sobotová	Z	5	0P+6C	*	Р
2321501	Ji í Janovec, Jakub Horváth, Lucie Pilsová <b>Jana Sobotová</b> Jakub Horváth (Gar.)	Z,ZK	4	3P+1C	*	Р
2381174	Enterprise Information Systems Vladimír Brdek	Z,ZK	4	2P+2C	*	Р
2321503	Technical testing of materials Ji í Cejp, Elena ižmárová Elena ižmárová Elena ižmárová (Gar.)	Z,ZK	5	2P+2C+0L	*	Р

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

2323993	Bachelor Thesis	Z	5		
2321501		Z,ZK	4		
The course character	zes individual groups of new construction materials. In addition to the development and physical nature of these materials, the	most commonly	used types of		
recently developed m	aterials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability a	nd methods of the	ir designations		
are also presented.					
2381174	Enterprise Information Systems	Z,ZK	4		
2321503	Technical testing of materials	Z,ZK	5		
Term and definition of properties. Verification of properties in a certified quality management system. Accredited test laboratory and test systems, test standard. Basic mechanical					
properties and testing the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in accordance with the relevant					

standards. Test of resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defects in the material.

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.)	КZ	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 C General chemistry from the	the courses of this group of Study Plan: Code=12DVP1P-KMEN Na Chemistry e point of view of mechanical and process engineering. Physical chemistry forms 2/3 of al reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (h properties measurement.	the course (struct	ure and pro	perties of m	KZ atter, thermody	3 /namics,
2011021 C	Constructive Geometry			2	Z,ZK	6
The subject is focused on	geometric objects in the space - curves, surfaces and solids and their properties and me	utual relations.				
2383008 N	Ianagerial Psychology				Z	2
	lathematics I			1	Z,ZK	8
will also get to know the pro	hasis is placed on the theoretical basis of the concepts discussed and on the derivation ocedures for solving problems with parametric input. In addition, students will gain extended nial, integral as a limit function, integration of some special functions.		•			
	Computer Support for Study				KZ	3
	dents into creating technical and professional documents on computers or Web and into	realizing technical	computatio	1	1	rs Student

gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.							
2132001	Engineering Design I.	KZ	2				
Basic of technical repre	sentation, dimensioning and tolerancing						
2131005	History of Technology	ZK	3				
Development of human knowledge in the domain of science and technology in the retrospective of the development of our civilization. Emphasis is given upon new branches of							
technology with special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the narrower sense of the word.							

Code of the group: 12DVP2P-KMEN

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

12B\*\*2P-KMEN # Note on the group: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) 2021041 Z,ZK 7 4P+1L \* Physics I. Ρ Matematika II. \* 2011062 Z,ZK 8 4P+4C Ρ Radka Keslerová Materials Science I. Jana Sobotová, Jakub Horváth, Lucie Pilsová, Ji í Cejp, Elena Jakub Horník, Pavlína Hájková, Stanislav Krum, Jan Kr il, ..... ižmárová. ΚZ 2P+1L 2322029 3 2 Р Jana Sobotová Jana Sobotová (Gar.) **Computer Graphics** \* 2012037 ΚZ 3 1P+1C Р Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová **Surface Treatment** 2333017 7 3 1P+1C \* Р Jan Kudlá ek **Engineering Design II** 2131002 Z.ZK 4 2P+3C 2 Martin Dub, Martin Havlí ek, Jan Kanaval, Jan Flek, Karel Petr, Marek Štádler, Р Jan Hoidekr Karel Petr Karel Petr (Gar.) Fundamentals of Technology I. \* 2333038 Ζ 3 1P+1C Ρ Marie Kola íková

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

2024044					771/		
	'hysics 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,							
s and a second s	us experiments related to the lectures.	anors, uncertainty	or unect and	manectin	easuremen	13, Tegression,	
	fatematika II.			7	.ZK	8	
	ndary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradien	t and directional d	lerivative. Dif		, ,	-	
· ·	given implicitly. Local and global (= absolute) extremes of a function of more variables. Do						
. ,	rical and spherical coordinates. A simple smooth curve and line integral of a scalar and v		,	•			
field, independence of a lir	ne integral on the path. Simple smooth surface and surface integral of a scalar function a	ind a vector functi	on. Flow of a	vector field	d through a	surface. The	
Gauss-Ostrogradskij theor	em.						
2322029 N	laterials Science I.				KZ	3	
History and present state	of materials engineering, overview of technical materials, internal structure of metals, cry	stal lattices and t	heir defects,	deformatio	n, recrystal	ization and	
fracture of materials, struc	ture and properties of materials and their testing, fundamentals of thermodynamics, pha	ses and phase tra	ansformations	s, iron-carb	on phase d	iagram.	
2012037 C	Computer Graphics				KZ	3	
2333017 S	Surface Treatment				Z	3	
Introduction to the surface	treatments - branch signification and objects. Principles of corrosion, types and corrosio	on distribution. Ant	icorrosive pre	evention in	manufactur	ing, method	
anticorrosive prevention. C	corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings	, electroplating, h	ot-dip galvan	izing. Orga	nic coating	s. Ecological	
aspects of surface treatme	nts.						
	ngineering Design II			1	Z,ZK	4	
	ometrical Products Specification). Students will get critical knowledge about ISO system						
	cing of angles and cones, tolerancing of threads. Integral part of course is a project when	re students apply	and practice	their know			
	undamentals of Technology I.				Z	3	
	ngineering production. Technology of engineering production. Materials in engineering. C	•					
, and the second s	deling devices, molding materials, molding and castings. Foundry alloys. Overview of ba	0		•		0 0	
	ling. Production of pipes. Bulk and sheet metal forming. Welding technology. The charact	eristics of the vari	ious types of	welding. F	usion weldir	ng: Flame	
weiding and arc weiding w	ith coated electrodes. Thermal cutting.						
Code of the grou	up: 12DVP3P-KMEN						
Name of the gro	up: 00 2012 D kmenové 3. semestr redukované pro	VES prez	en ní				
•	edits in the group:	1 <b>20</b> pro2					
•							
Requirement co	urses in the group:						
Credits in the gr	oup: 0						
Note on the grou	up: 12BV*3P-KM	MEN-R #					
	Name of the course / Name of the group of courses						
Code	(in case of groups of courses the list of codes of their	Completion	Crodite	Scone	Semeste	er Role	
Code	members)	Completion	Cieuis	ocope	Jemesu		
	Tutors, <b>authors</b> and guarantors (gar.)						
						1	

Credits in the	e group: 0					
Note on the	group: 12BV*3P-KI	MEN-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	*	Ρ
2311004	Mechanics for Technology	Z,ZK	7	4P+2C	*	Р
2321039	Materials Science II. Jana Sobotová, Martin Ku ík, Ji í Janovec, Jakub Horváth, Lucie Pilsová, Ji í Cejp, Elena ižmárová, Jakub Horník, Jan Walter, Stanislav Krum Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Ρ
2331068	Technology I. Jan Kudlá ek	Z,ZK	5	2P+2C	*	Ρ
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 electron	Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction							
of radiation with matter.	Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom a	nd periodic syster	n of elements.					
Spectra, x-rays, ;laser.	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments related	d to the lectures.					
2011009	Mathematics III	Z,ZK	5					
An introductory course	in ordinary differential equation and infinite series.							
2311004	Mechanics for Technology	Z,ZK	7					
2321039	Materials Science II.	Z,ZK	4					
Fundamentals of metall	ugy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	d thermo-mechar	nical processing,					
technical iron-carbon al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.							
2331068	Technology I.	Z,ZK	5					
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,								
heating-up. Cutting. Col	neating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatments.							

2121023	Thermodynamics	Z,ZK	5
The course deal with a l	ossic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers.	Basic concepts a	nd 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 w	rith an emphasis o	n psychometrics.
Heat transfer covers fur	damentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application.Exercises an	d labs are devote	d to practical
problems and experime	ntal 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:	
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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Nina</b> <b>Procházková Ayyub</b>	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Eliška Vítková (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Eliška Vítková	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková	Z,ZK	2	0P+2C	*	PV

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

VES			
2041061	English-Bachelor Exam	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041063	French - Bachelor Exam /FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041062	German - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		

### 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
 Z,ZK
 5

 P edm t popisuje apliko-ztelnost 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
 Z,ZK
 5

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

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

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

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

Requirement courses in the group: In this group you have to complete at least 1 course (at most 4) Credits in the group: 2

#### Note on the aroup.

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

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

2322091	Project	KZ	2				
On the basis of the pre	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 emphas	with particular emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate hitherto obtained						
knowledge or results.	knowledge or results.						
2382091	Specialization Project	KZ	2				
2332091	Project	KZ	2				
2342091	Project	KZ	2				
Work on specialized tasks.							

Name of the block: Elective courses Minimal number of credits of the block: 0 The role of the block: V

Code of the group: 12BV\*\*V-ALFA Name of the group: 02 2012 ALFA volitelné pro VES Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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

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

202A041	Physics I.	ZK	3
Kinematics and dynamic	cs 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. Co	nductors, semicor	nductors,
insulators. Magnetic fiel	d. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	lirect measureme	nts, regression,
measurements of 11 va	rious experiments related to the lectures.		
201A021	Constructive Geometry A	ZK	3
The subject is focused of	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.	·	
201A056	Mathematics I.A	ZK	4
Introduction to linear alg	ebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
201A062	Mathematics II.A	ZK	4
Open and closed set, be	oundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentiability.	ntial operators div	v (divergence)
and curl (rotation). Funct	ion given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integ	ral, Fubini theorem	n. Transformation

of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

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

#### Name of the group: 05 2012 doporu ené seminá e

#### Requirement credits in the group:

Requirement courses in the group:

#### Credits in the group: 0

Note on the group:

Pokud si chce student své dosud získané znalosti (například z matematiky, fyziky, cizích jazyků atd.) doplnit, může si zapsat některý z volitelných předmětů, které příslušné ústavy pro 1. semestr (zimní) vypisují. Doporučujeme zejména předměty uvedené v této skupině

				pinto		
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

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

#### Note on the group:

Note on the gr						
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub <b>Nina</b> Procházková Ayyub	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Michaela Schusová</b> Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Michaela</b> 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 <b>Ilona Šimice</b>	Z	2	0P+2C	L	V

2046072	English - Upper Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Michaela Schusová</b> Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Ilona Šimice</b>	Z	2	0P+2C	L	V
2046068	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	z	v
2046069	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová <b>Ilona Šimice</b>	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 Jaroslava Kommová	Z	2	0P+2C	Z	v
2046127	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I. Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046090	French - Advanced Eliška Vítková, Michaela Schusová, Dušana Jirovská Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	v
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Eliška Vítková, Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046085	French - Beginners' Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Eliška 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 Vitková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046081	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	v
2046080	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046076	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046077	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V

	Presentations in English	_				
2046161	Eliška Vítková, Michaela Šchusová, Ilona Šimice, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	*	V
2046166	<b>Presentations in Czech</b> Eliška Vítková, Jaroslava Kommová, Petr Laurich <b>Jaroslava Kommová</b> Petr Laurich (Gar.)	Z	2	0P+2C	*	v
2046162	Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Eliška Vítková (Gar.)	Z	2	0P+2C	*	v
2046164	Presentations in Russian Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046163	Presentations in French language Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská 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	Z	2
Improving communicativ	e skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communication	e skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
1 · ·	European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which		
or at his/her free time ar	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professiona	al language.
2046070	English - Lower Intermediate	Z	2
Aim: Understanding clea	arly 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 sir	nple way about
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehension	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writi	ten and oral skills	on advanced
level. Ability to write a se	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	ld of studies witho	out difficulties.
Grammar structures on	advanced level. B1 - B2.		
2046075			
2040075	English - Advanced	Z	2
Mapped to the Commor	European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	• •	eat difficulties
Mapped to the Commor and active participation	European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compret	• •	eat difficulties
Mapped to the Commor and active participation	European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	• •	eat difficulties
Mapped to the Commor and active participation	European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compret	• •	eat difficulties
Mapped to the Commor and active participation scientific articles or texts 2046072	European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre- s from student's field of studies without difficulties. Grammar structures on advanced level.	nension of popula	eat difficulties r-scientific and 2
Mapped to the Commor and active participation scientific articles or texts 2046072 The aim is to extend Ian	European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre- s from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate	nension of popula	eat difficulties r-scientific and 2
Mapped to the Commor and active participation scientific articles or texts 2046072 The aim is to extend Ian	DEuropean Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre- s from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	nension of popula	eat difficulties r-scientific and 2
Mapped to the Commor and active participation scientific articles or texts 2046072 The aim is to extend lan about topics of everyday 2046073	DEuropean Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre- s from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate guage skills taking into consideration professional English and common professional terminology. Comprehension of standard life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	English speech a	eat difficulties r-scientific and 2 and conversation 2
Mapped to the Commor and active participation scientific articles or texts 2046072 The aim is to extend lan about topics of everyday 2046073 Mapped to the Commor	a European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre- s from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate guage skills taking into consideration professional English and common professional terminology. Comprehension of standard r life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate	English and commor	eat difficulties r-scientific and 2 and conversation 2 n professional
Mapped to the Commor and active participation scientific articles or texts 2046072 The aim is to extend lan- about topics of everyday 2046073 Mapped to the Commor	<ul> <li>European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compretes from student's field of studies without difficulties. Grammar structures on advanced level.</li> <li>English - Upper Intermediate guage skills taking into consideration professional English and common professional terminology. Comprehension of standard v life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.</li> <li>English - Upper Intermediate neuronal terminology. Comprehension of standard v life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.</li> <li>English - Upper Intermediate neuronal terminology. Comprehension of standard v life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.</li> </ul>	English and commor	eat difficulties r-scientific and 2 and conversation 2 n professional
Mapped to the Commor and active participation scientific articles or texts 2046072 The aim is to extend lan about topics of everyday 2046073 Mapped to the Commor terminology. Compreher	<ul> <li>European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compretes from student's field of studies without difficulties. Grammar structures on advanced level.</li> <li>English - Upper Intermediate guage skills taking into consideration professional English and common professional terminology. Comprehension of standard v life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.</li> <li>English - Upper Intermediate neuronal terminology. Comprehension of standard v life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.</li> <li>English - Upper Intermediate neuronal terminology. Comprehension of standard v life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.</li> </ul>	English and commor	eat difficulties r-scientific and 2 and conversation 2 n professional

2046069	English - Beginners	Z	2
Mapped to the Commo	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand	ding and use of ba	asic expressions
-	ninology (professional language).		
2046126	Czech Lower Intermediate	Z	2
-	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sin	nple way about
	and comprehension of simple texts. Improvement of professional language.		
2046125	Czech Lower Intermediate	<u>Z</u>	2
-	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sin	nple way about
	and comprehension of simple texts. Improvement of professional language.	7	
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen	-	
	is from student's field of studies without difficulties. Grammar structures on advanced level.	sion of popular-sc	
2046117	Czech -Advanced	Z	2
	en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	- 1	
	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar		3.1
2046127	Czech - Upper Intermediate	Z	2
	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe exp	eriences and
events, briefly explain c	ne's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	h European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional	Czech and comm	on professional
terminology. Comprehe	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intern	mediate level. Bro	adening the
knowledge technical la	nguage.		
2046119	Czech Language for Beginners I.	Z	2
Basic vocabulary of eve	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest	sional language)	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Commo	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand	ding and use of ba	asic expressions
-	ninology (professional language).		
2046086	French - Lower Intermediate Course	Z	2
	vhat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	iting in a simple wa	ay about familiar
topics. Reading and co	mprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which		
	beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of		
2046091	French - Advanced	Z	2
Mapped to the level of 0	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on top	pics familiar to the	student.
Communication with no	tive encelvere porticipation in discussions. Expressions enjoines Written skills. A hility to write an essent are report. Desding on		
	tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an	nd understanding t	
currant issues and pop	ular scientific and technical articles.		exts concerning
currant issues and pop 2046090	ular scientific and technical articles. French - Advanced	Z	exts concerning
currant issues and pop 2046090 Comprehension of spol	ular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	Z	exts concerning
currant issues and pop 2046090 Comprehension of spol opinions. Written skills.	ular scientific and technical articles. French - Advanced en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	Z n in discussions. E chnical articles.	exts concerning 2 Expressing
currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089	Ilar scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate	Z n in discussions. E chnical articles. Z	2 Expressing 2
currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of the	ular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co	Z n in discussions. E chnical articles. Z omes across at wo	2 Expressing 2 prk, at school,
currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of during free time, and ta	Iter scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co liking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understand	Z n in discussions. E chnical articles. Z omes across at wo	2 Expressing 2 ork, at school, 4 technical texts.
currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of during free time, and ta 2046088	Iter scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co liking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understat French - Upper Intermediate French - Upper Intermediate	Z n in discussions. E ichnical articles. Z omes across at wo inding general and Z	2 Expressing 2 ork, at school, 4 technical texts. 2
currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of during free time, and ta 2046088 Understanding standard	Iter scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co liking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understand	Z n in discussions. E ichnical articles. Z omes across at wo inding general and Z	2 Expressing 2 ork, at school, 4 technical texts. 2
currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of during free time, and ta 2046088 Understanding standard	Iter scientific and technical articles.  French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co liking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understat French - Upper Intermediate d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilitine's opinions and plans. Reading and understanding general and technical texts.	Z n in discussions. E ichnical articles. Z omes across at wo inding general and Z	2 Expressing 2 ork, at school, 4 technical texts. 2
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currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of d during free time, and ta 2046088 Understanding standar events, briefly explain of 2046084 Understanding clearly v topics. Reading and con 2046085	Iter scientific and technical articles.  French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te French - Upper Intermediate Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co liking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts.  French - Upper Intermediate d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilitine's opinions and plans. Reading and understanding general and technical texts.  French - Beginners what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Write prehension of simple texts. Improvement of professional language.	Z n in discussions. E chnical articles. Z omes across at wo nding general and Z ty to describe exp Z iting in a simple wa	2 Expressing 2 ork, at school, 4 technical texts. 2 eriences and 2 ay about familiar 2
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currant issues and pop 2046090 Comprehension of spol opinions. Written skills. 2046089 Mapped to the level of 0 during free time, and ta 2046088 Understanding standard events, briefly explain of 2046084 Understanding clearly w topics. Reading and con 2046085 Mapped to the level of 0 his/her free time and sp 2146060 Basic of Indonesian La 2146061 Second part of Indonesian	It 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 to profess. Reading and understanding clearly what is spoken about everyday situations which weaking about them. Writing in a simple way about familiar to professional induces a speaker and tanguage for Student Exchange Program to Indonesia	Z n in discussions. E chnical articles. Z omes across at wo inding general and Z ty to describe exp ty to describe exp iting in a simple wo a student meets a of professional lan Z Z	exts concerning 2 Expressing 2 ork, at school, 4 technical texts. 2 eriences and 2 ay about familiar 2 at school or in guage. 2 2 2
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2046081 Germa	in - Upper Intermediate Course	Z	2
	European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co		
during free time, and talking about	t these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa	nding general and	d technical texts.
2046080 Germa	n - Upper Intermediate Course	Z	2
Understanding standard speech	about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit	ty to describe exp	eriences and
events, briefly explain one's opin	ons and plans. Reading and understanding general and technical texts.		
2046076 Germa	n - Beginners	Z	2
Basic vocabulary of everyday life	in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest	sional language)	
2046077 Germa	n - Beginners	Z	2
	opean Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic	expressions of
general scientific terminology (pro	ofessional language).		
2046161 Preser	ntations in English	Z	2
	English on technical topics, with a possible co-operation with specialized departments.	_	_
	ntations in Czech	Z	2
	tations in English on technical topics, with a possible co-operation with specialized departments.	2	<u> </u>
		Z	2
	ntations in German	2	2
	cal topics in German, possibly in cooperation with specialized departments.	7	
	itations in Russian	Z	2
	cal topics in Russian, possibly in cooperation with specialized departments.	_	
	ntations in French language	Z	2
Preparation for presenting techni	cal topics in French, possibly in cooperation with specialized departments.		
2046165 Preser	ntations in Spanish	Z	2
Preparation for presenting techni	cal topics in Spanish, possibly in cooperation with specialized departments.		
2046137 Russia	n - Lower Intermediate Course	Z	2
Understanding clearly what is spo	ken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	ting in a simple w	ay about familiar
topics. Reading and comprehens	on of simple texts. Improvement of professional language.		
2046138 Russia	n - Lower Intermediate Course	Z	2
	European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stu	dent meets at scl	hool or in his/her
	m. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profes		
2046141 Russia	in - Advanced	7	2
	ige as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation	_	
	vrite an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te		g
	in - Advanced	7	2
	European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to	-	
	ers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an	-	
currant issues and popular scient		a anaorotanaing	lokto concorning
	in - Upper Intermediate	Z	2
	ן European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student m	_	
	topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understail		-
	n - Upper Intermediate	<u>ک</u>	2
• •	about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit	ly to describe exp	eriences and
	ons and plans. Reading and understanding general and technical texts.	-	
	n - Beginners	Z	2
	European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understandi	ng and use of bas	sic expressions
of general scientific terminology (			
2046135 Russia	n - Beginners	Z	2
Basic vocabulary of everyday life	in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess	sional language)	
2046099 Spanis	h - Lower Intermediate	Z	2
Mapped to the level of Common I	European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stud	dent meets at sch	ool or in his/her
free time and speaking about the	m. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profes	sional language.	
2046098 Spanis	h - Lower Intermediate	Z	2
	ken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	ting in a simple w	ay about familiar
topics. Reading and comprehens	on of simple texts. Improvement of professional language.		
2046096 Spanis	h - Beginners	Z	2
	s spoken about everyday situations which a student meets at school or in his/her free time and speaking about ther		
	prehension of simple texts. Improvement of professional language.	<b>J</b>	
	h - Beginners	Z	2
	n Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a		
	out them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement c		

## List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
	An introductory course in ordinary differential equation and infinite series.	•	

2011021	Constructive Geometry The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	Z,ZK	6
2011056	Mathematics I	Z,ZK	8
n the course, greate	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections	between conce	pts. Studen
vill also get to know th	he procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eig of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	gennumbers and	eigenvecto
2011062	Matematika II.	Z,ZK	8
	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentia	,	-
-	inction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, F		-
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 pot	tential vect
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 s	surface. Th
	Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation		
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
-	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentia		-
, ,	Inction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, F cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
<b>U</b> 1 <i>i</i>	e 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		
neid, independence	Gauss-Ostrogradskij theorem.	neid through a s	bullace. III
2021025	Physics II.	Z.ZK	4
	tromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elect	,	1 -
-	itter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and p	-	
pectra, x-rays, ;lase	er. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experi	ments related to	the lectur
2021041	Physics I.	Z,ZK	7
inematics and dyna	amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prop	, perties of bodies.	Oscillatio
waves. Fluid mec	chanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Cor	ductors, semico	nductors,
nsulators. Magnetic	field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect	t measurements	, regressio
5	measurements of 11 various experiments related to the lectures.		
2026016	measurements of 11 various experiments related to the lectures. Physics - Seminar	Z	2
		Z	2
	Physics - Seminar	Z ZK	2
2026016 202A041	Physics - Seminar The subject is mainly meant for high-school students for repetition of high-school physics.	ZK	3
2026016 202A041 (inematics and dyna waves. Fluid mec	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic process.           chanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conservation	ZK perties of bodies. aductors, semico	3. Oscillation
2026016 202A041 (inematics and dyna waves. Fluid mec	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prochanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Confield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect	ZK perties of bodies. aductors, semico	3. Oscillation
2026016 202A041 (inematics and dyna waves. Fluid mec insulators. Magnetic	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prochanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Con 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.	ZK perties of bodies. aductors, semico t measurements	3 Oscillation nductors, , regressio
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2026016 202A041 Sinematics and dyna waves. Fluid mec nsulators. Magnetic 2041061	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propresentations. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Correct 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.           English-Bachelor Exam           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti	ZK perties of bodies. iductors, semico t measurements Z,ZK	3. Oscillation nductors, , regressio
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2026016 202A041 inematics and dyna waves. Fluid mec nsulators. Magnetic 2041061 Mapped to the Comm 2041062 Mapped to the Comm 2041063	Physics - Seminar         The subject is mainly meant for high-school students for repetition of high-school physics.         Physics I.         amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propresentations. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conservation of 11 various experiments, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.         English-Bachelor Exam         non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.         German - Bachelor Exam / FME         non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.         German - Bachelor Exam / FME         Intensity of measurements, the read technical texts, to master grammar at advanced level.	ZK berties of bodies. Iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK	3 Oscillation nductors, , regression 2 discussion 2 discussion 2
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2026016         202A041         inematics and dyna         waves. Fluid mec         nsulators. Magnetic         2041061         dapped to the Comm         2041062         dapped to the Comm         2041063         dapped to the Comm         2041064         dapped to the Comm	Physics - Seminar         The subject is mainly meant for high-school students for repetition of high-school physics.         Physics I.         amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic proportations. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conservation of an easurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.         English-Bachelor Exam         non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.         German - Bachelor Exam / FME         non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.         Spanie Hoelor Exam / FME         non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.         Spanish - Bachelor Exam / FME         non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greate	ZK berties of bodies. Iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK	3       Oscillation       nductors,       regression       2       discussion       2
2026016         202A041         inematics and dyna         waves. Fluid mec         nsulators. Magnetic         2041061         lapped to the Comm         2041062         lapped to the Comm         2041063         lapped to the Comm         2041064         lapped to the Comm	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propriations. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conservations of 11 various experiments, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.           English-Bachelor Exam           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           German - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on tech	ZK berties of bodies. Iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK	3       Oscillation       nductors,       regression       2       discussion
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2026016         202A041         (inematics and dyna waves. Fluid mec nsulators. Magnetic         2041061         Mapped to the Comm         2041062         Mapped to the Comm         2041063         Mapped to the Comm         2041063         Mapped to the Comm         2041063         Mapped to the Comm         2041064         Mapped to the Comm         2041065         Mapped to the Comm         2046068         Aim: Basic vocat         2046069         Mapped to the Comm	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prograthanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Corfield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.           English-Bachelor Exam           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           German - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           French - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ZK berties of bodies. Iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK	3       Oscillation       nductors,       regression       2       discussion       2       adiscussion       2       cexpression       2       cexpression       2       2
2026016         202A041         inematics and dyna         waves. Fluid mec         nsulators. Magnetic         2041061         1apped to the Comm         2041062         1apped to the Comm         2041063         1apped to the Comm         2041063         1apped to the Comm         2041064         1apped to the Comm         2041065         1apped to the Comm         2046068         Aim: Basic vocat         2046069         1apped to the Comm	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic progrhanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Corfield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.           English-Bachelor Exam           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           German - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           French - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to maste	ZK berties of bodies. Iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK	3       Oscillation       nductors,       regression       2       discussion       2       adiscussion       2       adiscussion
2026016         202A041         inematics and dyna         waves. Fluid mec         nsulators. Magnetic         2041061         1apped to the Comm         2041062         1apped to the Comm         2041063         1apped to the Comm         2041063         1apped to the Comm         2041064         1apped to the Comm         2041065         1apped to the Comm         2046068         Aim: Basic vocat         2046069         Iapped to the Comm         2046070         Aim: Understanding         2046071	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           Immission of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propriations. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Confield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.           English-Bachelor Exam         Indirect materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.           Inon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Inon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam / FME           non European	ZK perties of bodies. Iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z,ZK	3       Oscillation       nductors,       regression       2       discussion       2       expression       2       expression       2       e way abo       2
2026016         202A041         inematics and dyna         waves. Fluid mec         nsulators. Magnetic         2041061         1apped to the Comm         2041062         1apped to the Comm         2041063         1apped to the Comm         2041063         1apped to the Comm         2041064         1apped to the Comm         2041065         1apped to the Comm         2046068         Aim: Basic vocat         2046069         Iapped to the Comm         2046070         Aim: Understanding         2046071         Mapped to the Comm	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           unics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propriments. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Corfield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures.           Image: State Stat	ZK perties of bodies. iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z utake part in Z udent meets eith	3         Oscillation         nductors,         regression         2         discussion         2         expression         2         expression         2         expression         2         expression         2         expression         2         expression         2         errest schoon
2026016         202A041         (inematics and dyna waves. Fluid mec nsulators. Magnetic         2041061         //apped to the Comm         2041062         //apped to the Comm         2041063         //apped to the Comm         2041063         //apped to the Comm         2041063         //apped to the Comm         2041064         //apped to the Comm         2041065         //apped to the Comm         2046068         Aim: Basic vocat         2046070         //apped to the Comm	Physics - Seminar           The subject is mainly meant for high-school students for repetition of high-school physics.           Physics I.           Physics I.           amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propriations of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic propriation of particles, centre of mass. Rigid body. Continuum, elastic propriations can be added to the lectures.           English-Bachelor Exam           mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           German - Bachelor Exam / FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           French - Bachelor Exam /FME           non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulti to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.           Spanish - Bachelor Exam /FME           Intermework Level B2. The aim is to understand spoken language and lectures on technical	ZK perties of bodies. iductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z utake part in Z udent meets eith	3         Oscillation         nductors,         regressio         2         discussion         2         expression         2         expression         2         e way abo         2         ner at scho

2046073	English - Upper Intermediate Z	2
	European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and commo	
erminology. Comprehensi	on of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broa	dening gramm
	knowledge.	
2046074	English - Advanced Z	2
	of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skill	
level. Ability to write a su	mmary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies with	nout difficulties
2046075	Grammar structures on advanced level. B1 - B2.	2
2046075	English - Advanced Z European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without g	2 reat difficulties
	a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and comprehension of popula	
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	
2046076	German - Beginners Z	2
Basic vocabulary	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional lar	1
2046077	German - Beginners Z	2
Mapped to the level Com	mon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic	expressions o
	general scientific terminology (professional language).	
2046078	German - Lower Intermediate Course Z	2
Aim: Understanding clear	ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a si	mple way abo
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	
2046079	German - Lower Intermediate Course Z	2
	mmon European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student meets and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of profession	
		2
2046080	German - Upper Intermediate Course Z speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe ex	1
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	
2046081	German - Upper Intermediate Course Z	2
	ommon European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students comes across at v	1
	ng about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and	
2046082	German - Advanced Course Z	2
Comprehension of spok	en language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation in discussion	ns. Expressing
opinions. Written	skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	articles.
2046083	German - Advanced Course Z	2
••	mmon European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German without	•
and active participation in	a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popul scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	lar-scientific ar
2040004		-
2046084	French - Beginners Z at 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 w	2
inderstanding clearly who	topics. Reading and comprehension of simple texts. Improvement of professional language.	ay about lanin
2046085	French - Beginners´ Course Z	2
	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a student meets	
	speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professiona	
2046086	French - Lower Intermediate Course Z	2
	at 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 w	ay about famil
	topics. Reading and comprehension of simple texts. Improvement of professional language.	
2046087	French - Lower Intermediate Course Z	2
Mapped to the level of C	ommon European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a student meets	s at school or i
his/her free time and	speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professiona	al language.
2046088	French - Upper Intermediate Z	2
Understanding standard	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe ex	periences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	
2046089	French - Upper Intermediate Z	2
	ommon European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students comes across at w	
-	ng about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and	
2046090	French - Advanced Z	2
	ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation in discussion skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	
2046091	French - Advanced Z	2
	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on topics familiar to	
	e speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding to	
	currant issues and popular scientific and technical articles.	
2046096	Spanish - Beginners Z	2
	ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a sir	1
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	
	Spanish - Beginners Z	2
2046097		
2046097	European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student meets	at school or in
2046097 Mapped to the Commor	European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student meets speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professiona	
2046097 Mapped to the Commor		

2046099	Spanish - Lower Intermediate	7	2
Mapped to the level	of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	-	1
free time and	d speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	professional langu	age.
2046117	Czech -Advanced	Z	2
	boken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis	•	ing opinions.
	skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		0
2046118	Czech -Advanced of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	Z	2
	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	-	
	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
Basic vocab	ulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langu	age)
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Comr	non European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expressions
	of general scientific terminology (professional language).		1
2046125	Czech Lower Intermediate	Z	2
Aim: Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simpl	e way about
0040400	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	-	
2046126	Czech Lower Intermediate	Z	2
Aim: Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	writing in a simpl	e way about
2046127	Czech - Upper Intermediate	Z	2
	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	_	1
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	non European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	_	1
terminology. Comp	rehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	ediate level. Broa	dening the
	knowledge technical language.		1
2046135	Russian - Beginners	Z	2
	ulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	-	
2046136	Russian - Beginners	Z	2
Mapped to the level	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basic	expressions
2046427	of general scientific terminology (professional language)	7	2
2046137	Russian - Lower Intermediate Course y what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	-	-
Understanding clean	topics. Reading and comprehension of simple texts. Improvement of professional language.		about laminar
2046138	Russian - Lower Intermediate Course	7	2
2046138 Amount Apped to the level	Russian - Lower Intermediate Course of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer	Z nt meets at schoo	2 l or in his/her
Mapped to the level		nt meets at schoo	l or in his/her
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2121023			
	Thermodynamics	Z,ZK	5
	sic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Basi oplied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with a	•	
	damentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and la		
	problems and experimental technique.		
2131002	Engineering Design II	Z.ZK	4
	eometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface to	,	ical toleran
dimensional loops, tole	erancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their	knowledge from	n lectures.
2131005	History of Technology	ZK	3
Developement of human	n knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is g	iven upon new	branches
technology with specia	I attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the na	arrower sense o	f the word
2131519	Machine Elements for Technology	Z,ZK	5
2132001	Engineering Design I.	KZ	2
I.	Basic of technical representation, dimensioning and tolerancing		I
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
Elements of electrical cir	cuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, th	yristors,operatio	on amplifie
Analogue and digital	circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines.	Synchronous n	nachines.
	DC-machines		
2144062	Technical Indonesian - Course II.	Z,ZK	3
	Basic of Indonesian Language for Student Exchange Program to Indonesia		
2146060	Indonesian Language Course for Exchange	Z	2
	Basic of Indonesian Language for Student Exchange Program to Indonesia		
2146061	Technical Indonesian - Course I.	Z	2
0400040	Second part of Indonesian Language for Student Exchange Program to Indonesia		
2182019	Chemistry	KZ	3
	the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		-
phase equilibrium, chen	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochem	listry. Laborator	y practice
0044004	oriented upon the material properties measurement.	7 71/	7
2311004	Mechanics for Technology	Z,ZK	7
2321039	Materials Science II.	Z,ZK	4
undamentals of metallur	gy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the		al process
0004007	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materia		
	Technical Application of Materials atelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend plicability of specific engineering material types and their characteristics. It deals with the current development trends in these n	-	
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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.			
2341001	Metrology	Z,ZK	5
	on into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seco	,	
in 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness. Measurement automatisation.			
2341014	Technology II.	Z,ZK	5
mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes, programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.			
2342005	Quality Control	KZ	2
	I terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statisti		
sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.			
2342091	Project	KZ	2
I	Work on specialized tasks.	I	
2372041	Computer Support for Study	KZ	3
1	es students into creating technical and professional documents on computers or Web and into realizing technical computations with t	ne use of compute	rs. Students
gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.			
2381002	Fundamentals of Economics	Z,ZK	5
The course is focu	sed on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating	g of the economics	according
to so called macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different markets and competitions.			
2381068	Cost Accounting	Z,ZK	5
The subject prese	ents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge	ting (expected cos	st), 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.			
2381075	Enterprise Management and Economics	Z,ZK	5
2381098	Enterprise Finance	Z,ZK	4
	ng of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders	•	
and their practical application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and purpose of projected finan-cial			
statements and their role in the development of future plans for a business and in the assessing the impact of management decision on the performance and position of a busi-ness,			
factors which must be taken into account when managing the working capital of a business, various aspects of financing the business through external and internal sources of finance			
	a business, ways how business can make decision and evaluation involv-ing investments in new technology, and various aspects of r	<u> </u>	
2381174	Enterprise Information Systems	Z,ZK	4
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.	T	
2382091	Specialization Project	KZ	2
2383001	Fundamentals of Law	Z	2
Basic orientation in legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provide a view into the Czech Legal			
Order, particular sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is necessary for students to know			
our legal institutions, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. At the same time the course			
leads students to know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relationships and to make them ready to prepare professional presentations and to understand basic structures between law and engineering			
2383008	Managerial Psychology	Z	2
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 <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-20, time 08:08.